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HNGEV38	4188	572882	1 - 313	15 - 327	
HNGEV40	4189	572894	1 - 302	15 - 316	AC006263.
HNGEV53	4190	573090	1 - 301	15 - 315	
HNGEV59	4191	576750	1 - 305	15 - 319	
HNGEV65	4192	750391	1 - 585	15 - 599	AA644587, AA135942, AA004231, AL044969, H30905, R01285, AI079521, R01173, and AC004223.
HNGEV70	4193	573089	1 - 128	15 - 142	
HNGEV75	4194	506312	1 - 246	15 - 260	
HNGEV86	4195	789128	1 - 89	15 - 103	AL034429.
HNGEV88	4196	750542	1 - 326	15 - 340	H23596, H40504, and H21110.
HNGEW18	4197	958328	1 - 336	15 - 350	
HNGEW76	4198	572874	1 - 276	15 - 290	AA362395, AW051064, AI085439, W25284, AA652057, AA649642, AI446464, AA125788, AA348859, AL037876, H13868, AA441788, N71724, R91744, AA329192, AI886176, AI064864, AA095511, AW419262, R76463, AW088058, AW074207, AA654627, AA199660, AA826032, T62712, AI439360, AI623696, F24284, T90706, R45369, AA337978, AA058859, AA368030, AL048616, AA491814, AA147516, AI299050, AW406447, T56472, R93061, AI281903, AW192154, AI371429, N23649, AA332991, AI423625, AA650244, AA199798, F32705, AI003172, AW274101, AA598997, AL138455, AA713767, AA364315, H00934, AA218645, W60516, H72666, AA134367, W95976, W95841, W00796, T53607, AI184354, AI537955, AA318652, AA365347, AL048925, AA654771, AA501722, R24205, AA702023, AA342958, N25296, AW069481, AI925556, H22147, AA714453, AW083402, AA657918, AW021917, AA878140, N66026, AI612032, AA678436, AA557325, F25276, AA127636, AI499503, AI927741, F35659, AA587256, AA888310, AA340003, AA614069, AI049634, R76777, AI348611, D82290, AA309460, T06556, AL135405, AW337237, H03415, AW088984, AA309389, AA828984, R69934, AA167741, R66878, N58534, AI305766, AI246796, AA879430, AW083364, AI926023, AA076632, AW103679, AW103383, AI709066, H16048, AA932099, AA489775, AA578141, H77643, AA581342, AA338522, AA919037, AA649705, AI863283, T16592, AA259245, AA733208, AA533725, R44592, W56200, AA021133, N29941, AW008317,

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HNGEX06	4199	935838	1 - 528	15 - 542	AL110505.
HNGEX35	4200	959230	1 - 362	15 - 376	
HNGEX76	4201	834919	1 - 323	15 - 337	AF132033.
HNGEX95	4202	572897	1 - 314	15 - 328	
HNGEY41	4203	973310	1 - 534	15 - 548	AL050310.
HNGEY50	4204	676067	1 - 295	15 - 309	

HNGEY60	4205	920375	1 - 462	15 - 476	
HNGEY80	4206	790222	1 - 414	15 - 428	AC007252.
HNGEY84	4207	752239	1 - 467	15 - 481	Z82195, AL049795, AP001039, AC005295, and AC004707.
HNGEZ45	4208	574462	1 - 405	15 - 419	
HNGFA28	4209	774277	1 - 666	15 - 680	
HNGFA39	4210	424813	1 - 471	15 - 485	
HNGFA41	4211	952235	1 - 135	15 - 149	
HNGFA67	4212	576719	1 - 305	15 - 319	
HNGFA80	4213	963490	1 - 613	15 - 627	C16718, AL041375, AI452836, AI090377, C16746, C16704, AA831426, AI797998, AI309943, AW338021, AA410788, AI431513, AI973173, AI474127, AI984168, AA558366, AA228778, AA503298, AI310670, AA721645, AI078409, AA599712, AW089625, AI627917, AI349130, AA747234, AI744905, AW163763, AA679946, AI921706, AW008184, AI338117, AI926706, AI283938, N54538, AI755214, AI754105, AA176604, AI355246, AI754421, AW151201, AI754567, AW275432, AI697239, AA703818, AI697242, AW194046, AA570740, AI192465, AA483606, AW190484, AI697235, R73744, H84412, AW272294, AI610737, AA829036, AI244127, AI310787, AI266359, AI280535, AA225406, AI371208, AA299589, AA019003, AI565126, AA405726, AI915081, AA584207, AW338035, N42508, AA584765, AA568204, AI635028, AA311535, N25079, AI299442, F30158, AI800426, AW337805, AI598056, H30475, AW023111, AA297666, AA489390, AI753887, AI243793, AI249688, AI285493, W60077, AI270647, AI537694, AL035977, AA845659, AI580260, AI453155, AI620992, AI828742, D44899, AI745116, AI469564, AA603400, AI433131, H73550, AI038304, AA856815, T49633, AI290405, AI039125, AA503019, AA501460, AI310464, AI056177, AI865213, AI521525, AI870453, T60666, AI858165, AI865196, AW020150, AI817230, AI537800, AI251576, AA683069, AI801695, H61754, AA581240, AA584484, AW084445, AI923052, UI7576, Z93931, AL139054, AL031588, AL035587, AC009509, AL050307, AC003663, AC003042, AC005940, AL021453, AC007227, AC006501, AC005619, AP000211, AB003151, AC005839, AC007688, AC005919, AC005913, AC004383, AL031447, AC006597, AL009181, AC008101, AC004858, U85195, L43411, AC002310, AC002395, AL050348, AP000353, AC002425, AC006441, AC004605, AC005519, AP000133, AL022318, AF109907, AL133246, AC006511, AL022476, AC003041, I34294, AL133445, AL080243, AC005921, AL024507, AC007917, AC002550, AL035086, AC006241, AL008719, AC005071, Z95114, AC004448, AC006101, AE000660, AC004805, AC005207, AC006059, AC005670, AI229041, AC000353, AC005527, AL031428, AL050312, AC007324, AC016027, AC007225, AC005255, AI109798, AL031622, AC009288, AC016830, AC005346, AC004211, AC005072, U95742, AL121754, AC004967, AP000210, AP000132, AC005914, L39891, AF002991, AC005529, Z84469, AC006317, AL022316, AC009247, AC007262, AL096791, AC007216, AC004811, AF045555, AC007021, AL022326, AC005201, AL133448, AC004223, Z95126, AC004699, U80460, AC008545, AC004706, U07563,

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HNGFB08	4214	959738	1 - 365	15 - 379	
HNGFB52	4215	573575	1 - 325	15 - 339	
HNGFB57	4216	868072	1 - 249	15 - 263	
HNGFB74	4217	573024	1 - 160	15 - 174	
HNGFC71	4218	573160	1 - 352	15 - 366	
HNGFD63	4219	835997	1 - 458	15 - 472	
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HNGFD75	4220	823462	1 - 354	15 - 368	
HNGFD85	4221	783467	1 - 394	15 - 408	AL049871.
HNGFD96	4222	968248	1 - 544	15 - 558	AA707443, H46169, and H51510.
HNGFF35	4223	805996	1 - 635	15 - 649	
HNGFG22	4224	573084	1 - 398	15 - 412	
HNGFG51	4225	725787	1 - 203	15 - 217	
HNGFG57	4226	860595	1 - 326	15 - 340	R06993, and AA779921.
HNGFG69	4227	926873	1 - 301	15 - 315	
HNGFH94	4228	966118	1 - 522	15 - 536	

HNGFI06	4229	935828	1 - 415	15 - 429	
HNGFI20	4230	578896	1 - 338	15 - 352	
HNGFI32	4231	699398	1 - 334	15 - 348	R98238, AC002306, and Z97192.
HNGFI81	4232	578892	1 - 402	15 - 416	
HNGFI27	4233	860591	1 - 382	15 - 396	
HNGFK28	4234	544726	1 - 977	15 - 991	
HNGFK44	4235	860589	1 - 255	15 - 269	
HNGFL04	4236	572833	1 - 330	15 - 344	
HNGFM50	4237	584729	1 - 392	15 - 406	D83779.
HNGFM74	4238	578884	1 - 510	15 - 524	
HNGFM79	4239	860585	1 - 287	15 - 301	AL049836.
HNGFN21	4240	572821	1 - 368	15 - 382	AA411753.
HNGFN56	4241	970740	1 - 337	15 - 351	
HNGFN65	4242	576698	1 - 473	15 - 487	
HNGFN96	4243	770209	1 - 281	15 - 295	AI306717, AI281622, AI270177, AI417586, AI065031, AA374797, AI251576, AI306232, AW274191, AI583466, AI002863, AA831801, AI559583, AA443778, AI798521, AW084173, AA832016, AI298995, AA443771, AI275989, AA205911, AW243793, AA229012, AA229730, T40629, AW019964, AA657910, AI133083, AI338526, AI955029, AW341955, AW439703, AI357628, AI499376, AI066646, H86579, AI471476, AI267356, AW242279, AA287502, AA761966, AI755202, H16875, AA496309, AA346870, AA573000, H50725, AW377926, AW028376, AA018923, AI982994, AA012829, H73306, N23919, AA226260, AI860535, AI278211, AI560073, AA126475, AI624379, AW392414, AA017240, AW408596, AA572813, AA704806, AA640252, AC007182, AC007563, AC006958, AC008040, AC005046, AC006511, Z85987, AC012627, AC004216, AC006973, AL049838, AC003976, AL049758, Z99496, AC003964, AL031985, AC005228, AB020868, AF165926, AC004999, AL049552, AL031429, Z83826, AC004797, AL031983, AL033527, AC005011, AC007225, AL078593, AF196970, AC007240, AC005697, AC006120, Z97054, AC005225, AC005004, AL035683, AL109847, Z98048, AF155238, AC005261, U52112, L47334, AL031280, AC006480, AC002390, AC003037, AC005632, AL096776, AC004067, U95740, AC004825, U50871, AL035252, AC005482, U91321, AC007376, AC007546, AC005057, AC004617, AC005874, AF134471, AL034420, AC005386, AC004003, AP000248, AC007160, AC007050, AL117258, AC002375, AL031291, AL132992, AL121578, AL031681, AL133445, AC009501, AC010200, AC005534, AC006137, AC007327, AF117829, AP000344, AC011456, AC005839, U82668, AP001058, L29074, AC005102, Z94056, AL139054, AL109628, AL049869, AC006116, AP000011, AL031663, AC007283, AC005737, AL024507, AC010206, AC006566, AF111168, AC007880, AC007536, AC003007, AC004975, AC004887, AB020863, AC006088, AC005366, AC005049, AL133355, AC005993, AL035420,

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HNGFO46	4244	935135	1 - 255	15 - 269	
HNGFO55	4245	572856	1 - 356	15 - 370	
HNGFO81	4246	526792	1 - 261	15 - 275	AC008981.
HNGFP02	4247	920483	1 - 336	15 - 350	
HNGFP08	4248	959730	1 - 362	15 - 376	AL008720.
HNGFP62	4249	573052	1 - 341	15 - 355	
HNGFP80	4250	931021	1 - 359	15 - 373	AC006453.
HNGFP93	4251	707332	1 - 347	15 - 361	AC007136.
HNGFQ36	4252	703715	1 - 358	15 - 372	
HNGFQ58	4253	576715	1 - 483	15 - 497	
HNGFR02	4254	920482	1 - 310	15 - 324	
HNGFR16	4255	573358	1 - 357	15 - 371	U51560, and Z80896.
HNGFR48	4256	860245	1 - 481	15 - 495	H80158.
HNGFR73	4257	646263	1 - 469	15 - 483	
HNGFR80	4258	576713	1 - 422	15 - 436	
HNGFR85	4259	572838	1 - 373	15 - 387	
HNGFS46	4260	573094	1 - 403	15 - 417	AC004605.
HNGFS58	4261	932396	1 - 315	15 - 329	
HNGFS71	4262	572828	1 - 328	15 - 342	Z68225.
HNGFT19	4263	671599	1 - 555	15 - 569	AL031055.
HNGFT77	4264	772335	1 - 396	15 - 410	
HNGFU12	4265	971170	1 - 412	15 - 426	AL050337.
HNGFU28	4266	860576	1 - 260	15 - 274	
HNGFU40	4267	559450	1 - 355	15 - 369	
HNGFV03	4268	924670	1 - 197	15 - 211	AC005155.
HNGFV32	4269	806047	1 - 409	15 - 423	
HNGFW09	4270	924693	1 - 327	15 - 341	

HNGFW15	4271	578901	1 - 206	15 - 220	
HNGFW31	4272	578864	1 - 317	15 - 331	
HNGFW82	4273	839957	1 - 230	15 - 244	Z68756.
HNGFW96	4274	959715	1 - 461	15 - 475	
HNGGA08	4275	959637	1 - 294	15 - 308	
HNGGA10	4276	964820	1 - 364	15 - 378	
HNGGA20	4277	764502	1 - 435	15 - 449	AC006160.
HNGGA40	4278	506337	1 - 343	15 - 357	
HNGGA44	4279	577362	1 - 248	15 - 262	AC005220.
HNGGA53	4280	576212	1 - 417	15 - 431	AC002288, AC004111, AC007130, AC003950, Z84487, AC005514, AC004905, AC003036, AC007030, AC005265, AL023807, AP000353, and AC022517.
HNGGA90	4281	572869	1 - 352	15 - 366	
HNGGB09	4282	881399	1 - 671	15 - 685	
HNGGE10	4283	964821	1 - 320	15 - 334	
HNGGE38	4284	576217	1 - 123	15 - 137	AC004583, and AC002041.
HNGGF02	4285	840277	1 - 289	15 - 303	
HNGGF03	4286	924587	1 - 371	15 - 385	
HNGGF06	4287	935709	1 - 361	15 - 375	AC008124.
HNGGF26	4288	577369	1 - 212	15 - 226	
HNGGF57	4289	576256	1 - 364	15 - 378	
HNGGG02	4290	920379	1 - 386	15 - 400	AF048728.
HNGGG10	4291	964818	1 - 296	15 - 310	
HNGGG15	4292	576294	1 - 314	15 - 328	
HNGGG18	4293	506304	1 - 318	15 - 332	
HNGGG22	4294	576267	1 - 263	15 - 277	
HNGGG25	4295	679153	1 - 99	15 - 113	
HNGGG26	4296	576298	1 - 320	15 - 334	
HNGGG50	4297	576295	1 - 372	15 - 386	
HNGGG56	4298	733510	1 - 297	15 - 311	
HNGGG63	4299	576296	1 - 365	15 - 379	
HNGGG76	4300	576231	1 - 359	15 - 373	
HNGGGH38	4301	582695	1 - 330	15 - 344	H73720, AP000555, AL049588, Z85986, AC006130, AC005089, AL031282, AC006441, and U81831.
HNGGH48	4302	576705	1 - 349	15 - 363	
HNGGH57	4303	576278	1 - 172	15 - 186	
HNGGH64	4304	860426	1 - 410	15 - 424	

HNGGH74	4305	577192	1 - 332	15 - 346	
HNGGH78	4306	924908	1 - 419	15 - 433	
HNGGH95	4307	576214	1 - 330	15 - 344	
HNGGI08	4308	959639	1 - 316	15 - 330	
HNGGI52	4309	576270	1 - 352	15 - 366	
HNGGI58	4310	825371	1 - 103	15 - 117	
HNGGI81	4311	830081	1 - 274	15 - 288	H65090.
HNGGK31	4312	576259	1 - 58	15 - 72	
HNGGK53	4313	576253	1 - 296	15 - 310	
HNGGK86	4314	576247	1 - 313	15 - 327	AL023803.
HNGGK94	4315	576255	1 - 295	15 - 309	
HNGGL51	4316	576758	1 - 330	15 - 344	
HNGGM10	4317	964819	1 - 568	15 - 582	AC007766.
HNGGM41	4318	576284	1 - 356	15 - 370	
HNGGM56	4319	576219	1 - 356	15 - 370	
HNGGM67	4320	576220	1 - 367	15 - 381	
HNGGM76	4321	576287	1 - 286	15 - 300	AC005777.
HNGGM92	4322	576229	1 - 295	15 - 309	
HNGGN03	4323	924578	1 - 347	15 - 361	AC005325.
HNGGN04	4324	576263	1 - 267	15 - 281	AC006536.
HNGGN16	4325	576268	1 - 302	15 - 316	
HNGGN36	4326	708119	1 - 199	15 - 213	AW029269, AA077796, AI131261, H52283, AA496309, AI720943, AA666272, AA809179, AI417586, AW162303, AA629852, AW162047, AW161786, H86579, H30595, AA018923, AA012829, AI306717, H77442, W63553, T40629, AW084173, AW019964, AI038813, AI860535, AA946848, T06897, AI955029, AI332676, H30568, AW167909, AI357628, AI066646, AL037006, AI471476, AI475164, AW130427, AI755202, AA657910, R91633, AI833218, AL039309, AA424249, AI252828, AI254153, H79407, AI902426, AI254937, AA761036, AA774006, AI270149, AI251380, AI251949, AI252207, AA429481, AI251996, AI252979, AI254626, AI284684, AI251353, AI251298, AI255012, AI459866, AI254440, AW082076, AI251598, AI252933, AI223508, AI254658, AI241970, AW086319, AA665123, AI246059, AI255003, AI254673, AW086334, AI251976, AC004009, AI008715, AC008009, AC005881, U73330, AC002347, AI117258, AF111169, Z95331, Z83851, AC005765, AC000134, AC004801, AP001054, U47924, AC006312, AI049575, Z98946, AI022316, AC004797, Z93241, Z98044, AF042089, AI035685, AL008582, AC007981, Z83826, AC007993, AC015853, AC004542, Z98304, AP000052, AL023581, AC005190, AC005884, AC008372, AC005821, AL050318, AC005519, AC006057, AC006317, AC005666, Z75890, AP001050, AL023281, AL049570,

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HNGGN64	4327	577319	1 - 413	15 - 427	
HNGGN94	4328	967253	1 - 304	15 - 318	AC004592.
HNGGO01	4329	916754	1 - 432	15 - 446	
HNGGO14	4330	860246	1 - 314	15 - 328	AL022315.
HNGGO25	4331	576277	1 - 308	15 - 322	AL031279.
HNGGQ31	4332	576238	1 - 394	15 - 408	AC006013.
HNGGQ41	4333	712426	1 - 672	15 - 686	H71828, H71829, R97233, and R97234.
HNGGQ65	4334	576249	1 - 134	15 - 148	AB014078, AP000514, AC004209, and AC006139.
HNGGQ89	4335	577327	1 - 324	15 - 338	AL031033.
HNGGR01	4336	916753	1 - 843	15 - 857	AA292029, H71258, H49211, T81141, R81151, AW085137, N58701, AA814092, AW244149, AC003007, AF001549, AC002045, AL078613, Z98200, AC006000, and Z96074.
HNGGR10	4337	964815	1 - 241	15 - 255	
HNGGR17	4338	576250	1 - 215	15 - 229	
HNGGR43	4339	576246	1 - 433	15 - 447	
HNGGR74	4340	765698	1 - 244	15 - 258	
HNGGS09	4341	970861	1 - 386	15 - 400	
HNGGS26	4342	825369	1 - 398	15 - 412	AC005630, AC006328, AC004460, AC005154, and AC006312.
HNGGS33	4343	576305	1 - 414	15 - 428	
HNGGS41	4344	576308	1 - 64	15 - 78	
HNGGS66	4345	576312	1 - 401	15 - 415	
HNGGS67	4346	751781	1 - 248	15 - 262	
HNGGS73	4347	576740	1 - 391	15 - 405	AL034548, and AL035467.

HNGGS78	4348	576311	1 - 349	15 - 363	
HNGGT44	4349	576297	1 - 313	15 - 327	
HNGGT46	4350	719127	1 - 307	15 - 321	
HNGGT55	4351	576302	1 - 350	15 - 364	
HNGGT57	4352	576301	1 - 246	15 - 260	
HNGGT58	4353	576299	1 - 362	15 - 376	AC006212.
HNGGT62	4354	725750	1 - 117	15 - 131	
HNGGV07	4355	953549	1 - 276	15 - 290	
HNGGV55	4356	576313	1 - 286	15 - 300	
HNGGV70	4357	781247	1 - 497	15 - 511	
HNGGV95	4358	795920	1 - 423	15 - 437	AA486885, AA582911, AA644207, AA522942, AA873560, AA523815, AA487858, AA595825, AW088202, R95704, AW104748, AA196796, AA719080, AA480790, AA488573, R91159, AA620464, AW080134, AW162049, AA504871, AI929531, AI339850, AI469003, AL038785, AI962050, AI567674, AA111909, AW440836, AI570261, AI133636, AW029038, AA713815, AI625244, AA482711, AA634146, AI679782, AI251436, AA634145, AI251002, N22018, AA496260, AA837084, AA483068, AI890923, AW166815, AA115968, AI917271, AA550758, AA531372, AI049722, AL120674, C06458, T08438, AA768905, AA348929, AI368745, U51696, AA151980, AA767376, AA729721, AI608626, AA190911, AI918421, AA312845, AA113186, C05755, T94075, AA159052, AA132833, C06327, AA099892, AL119391, AA192470, R23229, AA045894, AA714055, AW131034, AA826303, AA923516, AW088616, AA515051, AA663486, AA533725, H78195, AA810370, R79819, H85382, AA079707, AI904894, F17761, AI281468, AA593247, AA678436, AI499134, AA652764, H04276, AI358571, AW075511, AW300625, AA340747, AA303161, AA604854, AA548689, AI362368, AA861959, AI446464, AA846936, AA573020, AA837677, AA670468, AA493708, AA623002, AA492166, AA133130, AA670158, AA583955, AW419118, F09736, AA521399, AA252763, AW079659, AI94761, AA525824, AA856858, AA491284, AA554319, T56472, AA709005, AA630925, AA906889, AA682912, AI298710, AA649705, AW439558, AA171416, AA721981, H43312, N55273, AA521323, AA644538, AA577906, AA469451, AI064864, AI610159, T52733, AA603156, AA069022, R97934, N25296, AI278997, AA346458, T07451, F29989, AA708352, AA599920, AI365988, AW406755, AA156538, AA280632, AA630030, AA490183, AA765170, AA079101, AW193432, AA483223, AI982525, AI471543, AA602528, AI547286, T53128, AI471481, AA644551, AA551503, AA635442, AA654771, AA970213, AA654761, AA352803, AA324164, AA653618, AA834755, AA338486, AI284640, AA370035, AA664015, AI046409, AI358229, T15897, AA604869, T28550, AA350859, D57369, AI061334, AA491814, AA679514, N59782, AA143516, AA720548, AI568678, AI754955, W79504, AI859742, AA115165, AA199616, AA633582, AA46657, N38987, AA825455, R88421, AA569214, AA973803, AA134335, AA302963, AI299050, AA668578, AL041412, AA284179, AI358343, AA828042, AA513972, AA503283, AI299050, AA668578, AL041412, AA284179, AI358343, AA828042, AA513972, AA503283,

HNXX46	4359	868071	1 - 327	15 - 341	<p> H79151, AA113861, AA781010, AI801600, AI679045, AI708009, AA804379, AA649642, H02877, AA568778, AA199853, AA610491, AI683577, C75026, T29180, AI281881, AA394271, AW301350, AL079812, AW303196, AA908687, AW243960, H88666, AW274349, AI469624, AA713715, AA993656, AA639248, AA584881, AC010582, AC005585, AC007628, AC005484, AC007239, AC007542, AL034451, AL021578, AP000352, AC006518, AP000157, AP000014, AC006480, AF015160, U14694, AF015163, AF060568, AF001548, Z98950, AC000119, U47924, AC004832, AP000695, AF015166, AL033381, M63543, M63544, AC007911, AB020874, U91327, AL132987, AC007041, AF015171, AP001172, AB026899, AC007103, AC005589, AC004853, AF015170, AC005144, AC004934, AC009509, AC004542, AC004638, AC004408, AC002094, AC016026, AP000500, AF031078, AF030876, AF045555, U12580, AL021878, AF055066, AC005081, U89335, S75337, AC002067, U14695, AC006222, AC004458, AL049777, AC005772, Z97196, AF015162, U12582, X67277, AC005164, U50871, Z82214, AC005722, AC004861, AC009028, AC005530, AP000954, AC004785, AC004981, AC007917, AF015158, AB019438, AL031709, AP000563, AP000133, AP000211, AL021939, AC006000, AF015167, Z84478, AC007436, AC002477, AC008055, U12583, U50570, U14698, AC008126, AC004019, AC006352, AC005520, AC004692, AL031904, AC005552, AP000519, AC006511, AL049633, AF015169, AC004506, AC003003, AC006116, AC006538, AF064864, AC004675, AC005046, AC000052, AC007684, AC005799, AP000456, AF088219, AC003985, AC007228, AC007319, AC006296, AL031655, AF015168, AC002456, AL121748, AC004690, AB023056, AC006561, AF015161, AL022576, AC004613, S75201, Z99297, AC004593, AL035089, AC005399, A39972, AC007845, AC005694, AC006285, AC002431, AL096829, U14700, AL031653, AC002059, AP000193, AP000050, AP000311, Z73986, AL034400, AL049589, AP000117, Z99758, AC004885, AF015165, AC005527, AC005495, AC008062, AC005156, AC007558, AC004915, AC016025, AC007056, AC007193, U14719, AC005999, AL078603, AC005207, AC006150, AF164343, AC005529, AC004808, AC005040, AC006312, AC006371, AC003088, AL109733, AC005821, AC005154, AC005521, AL035461, AC004702, U14718, AC004492, AC002487, AC004417, AL049764, AC007250, Z68328, AL022157, AL022393, AL031905, AP000156, AL035695, AL049642, Z82211, AC004027, AC006011, AL135746, U12584, AC006548, AC002449, AP000080, AC007245, AF029308, AC005503, AC000372, AL035415, AF196779, AL117353, AC004825, AC003998, AL050318, U14712, AC006441, AL109842, AL031770, AC005901, AC007156, U12581, AL049869, Z84470, AL022477, X58156, AC006597, AC005091, AC004796, Z98941, AC007687, AL033525, Z95114, AC006036, AL078644, AC004884, Z69921, AC004385, AC005084, AC005018, AC000062, AC007870, AC004103, AC004592, L29074, L00352, M63005, M63480, AC007565, AC007360, AP000093, and AL008633. </p>
HNXX46	4359	868071	1 - 327	15 - 341	
HNXX49	4360	860551	1 - 318	15 - 332	AC006482.
HNXX91	4361	576188	1 - 266	15 - 280	

HNGGX93	4362	576193	1 - 263	15 - 277	Z64732.
HNGGX95	4363	576222	1 - 279	15 - 293	
HNGHA08	4364	953539	1 - 399	15 - 413	
HNGHA10	4365	860553	1 - 584	15 - 598	AC005304.
HNGHA47	4366	576213	1 - 337	15 - 351	
HNGHA70	4367	576300	1 - 378	15 - 392	AA601995, AA565285, AW151732, AA551798, AC006960, AC002119, AF064860, AC005988, AC008372, AC005738, AB001523, AC006480, AL035658, AL096712, AL121655, AC003075, AC004259, AC004600, AP000558, AC006017, AC005089, AL021391, AC009516, AL096794, AL121603, AL034343, AC003681, AC004231, Z82244, AL021877, AL035464, AC005730, AC007371, AB000882, AC006445, AL031289, AL020997, AC006111, and AC005914.
HNGHA77	4368	772279	1 - 447	15 - 461	
HNGHB07	4369	860552	1 - 372	15 - 386	
HNGHB31	4370	576306	1 - 537	15 - 551	AA458724.
HNGHB33	4371	506261	1 - 128	15 - 142	
HNGHB48	4372	463007	1 - 625	15 - 639	
HNGHB55	4373	733509	1 - 506	15 - 520	AL132987.
HNGHB80	4374	576769	1 - 517	15 - 531	AI020851, AA338474, T27234, AA326098, AW317023, R68640, AI818313, AA829693, AA370883, AA366269, AC006255, AC002350, AC007052, AF111167, AC009891, AL117258, Z75890, AL023281, AF179633, AL035470, AC002289, AL035698, AC006409, AL050321, Z99128, AP000210, AP000132, AP000248, AC006101, AL133246, AF152365, AC003045, AP000300, AP000045, AP000113, AC002543, and AC005027.
HNGHB91	4375	576215	1 - 515	15 - 529	
HNGHD04	4376	932099	1 - 327	15 - 341	
HNGHD09	4377	860544	1 - 394	15 - 408	U91326, and AC002544.
HNGHD22	4378	576314	1 - 303	15 - 317	Z83733, and AL049749.
HNGHD25	4379	506262	1 - 306	15 - 320	
HNGHD59	4380	836226	1 - 344	15 - 358	
HNGHD67	4381	576317	1 - 430	15 - 444	AC004520.
HNGHE07	4382	953540	1 - 333	15 - 347	
HNGHE17	4383	576209	1 - 330	15 - 344	
HNGHE52	4384	576197	1 - 312	15 - 326	AC002038, AC006352, AC002041, AP000543, AC006359, and AC002307.
HNGHE56	4385	577124	1 - 344	15 - 358	
HNGHE62	4386	576202	1 - 266	15 - 280	AA864653, AI089093, AI470199, AA757250, AI038529, AA654837, H12636, AI612981, T61868, AA012846, AI658809, AA582114, AA115234, AA115354, AC004972, AL021330, Z93018, AC006924, AC006020, AL031684, AL121866, AL021182, Z70719, AC008013, AB023048, AP000511, AC002072, AF027598, Z82200, AC004474, AL034485, AL022153, AC007165,

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HNGHE69	4387	753107	1 - 503	15 - 517	AP000024.
HNGHE95	4388	779951	1 - 198	15 - 212	
HNGHG15	4389	971736	1 - 382	15 - 396	
HNGHG22	4390	577414	1 - 326	15 - 340	AC005033, and AC006544.
HNGHG56	4391	576230	1 - 353	15 - 367	AC004536.
HNGHG68	4392	576232	1 - 334	15 - 348	AC002351.
HNGHG71	4393	576218	1 - 346	15 - 360	
HNGHJ26	4394	924570	1 - 379	15 - 393	
HNGHK13	4395	577354	1 - 334	15 - 348	
HNGHK42	4396	582685	1 - 301	15 - 315	
HNGHK44	4397	576208	1 - 281	15 - 295	AL050342.
HNGHK46	4398	576205	1 - 308	15 - 322	
HNGHK48	4399	576206	1 - 320	15 - 334	
HNGHK50	4400	576195	1 - 364	15 - 378	
HNGHK53	4401	576191	1 - 343	15 - 357	AL034343.
HNGHK68	4402	576207	1 - 192	15 - 206	AC006120.
HNGHK77	4403	772277	1 - 482	15 - 496	
HNGHL10	4404	964814	1 - 352	15 - 366	
HNGHL20	4405	973969	1 - 550	15 - 564	AC000067, AL021332, AL034548, AF064860, AC010197, and U95740.
HNGHL22	4406	576326	1 - 363	15 - 377	AI052117, AI057562, AI369836, AI360398, R84933, AI289003, AI870646, AA767953, AI672430, AW274266, and AI926637.
HNGHL51	4407	576223	1 - 221	15 - 235	Z54246.
HNGHL52	4408	576226	1 - 414	15 - 428	
HNGHL65	4409	576320	1 - 243	15 - 257	AC005375.
HNGHL76	4410	506269	1 - 348	15 - 362	AC005953.
HNGHL77	4411	772283	1 - 293	15 - 307	
HNGHM33	4412	576741	1 - 302	15 - 316	
HNGHM36	4413	576325	1 - 355	15 - 369	

HNGHM51	4414	713805	1 - 394	15 - 408	
HNGHN22	4415	421742	1 - 433	15 - 447	AL034402, and AL049871.
HNGHN40	4416	576165	1 - 244	15 - 258	
HNGHN42	4417	576111	1 - 237	15 - 251	
HNGHN52	4418	576681	1 - 341	15 - 355	AA393776, AI149821, AI392728, AA436071, AI125367, and AA397838.
HNGHN56	4419	733881	1 - 416	15 - 430	AI183881, AI085895, AW014092, AL023656, AI121588, AL132826, AL035090, Z94722, AL008627, AL021877, and AL033381.
HNGHN70	4420	576108	1 - 434	15 - 448	
HNGHN75	4421	576110	1 - 427	15 - 441	
HNGHN76	4422	576170	1 - 218	15 - 232	
HNGHN86	4423	785566	1 - 203	15 - 217	AA456578, AI471887, AI198588, AA635739, AL042757, AI873761, AA478355, AA226715, AI955807, AA452832, AA493695, W01230, AA610491, AA584876, AI110688, AA493975, AW084466, AW275510, AA634889, N49368, AI687343, AI308402, AI700109, AI120086, AI119984, AI345157, AW089625, AA372481, AA702729, AW002350, AI133297, AW069769, AI278087, AI953275, AA279421, AI635819, AA808877, AL046409, AI431303, AW302903, AW263415, AA633753, AA019312, AL037554, AW269117, AA224083, AA780503, AI932599, AI470646, AI133164, AA497023, AA618452, AA724333, AI005388, AW023990, AW270657, AA493136, AL041690, AI305766, C15893, AL037683, AW168618, AW268973, AL048925, AA708664, AL041453, AI344812, AL043009, AI334464, AW193461, AA468022, AI926855, AA564570, AW270343, AI340641, AA719524, AA908687, AA501762, AA584167, AL041444, AI223604, AA629872, AI873852, AW080777, AL045053, AA551975, AI039584, H25921, AA356089, AI932493, AA541423, AW193265, AA478297, AI311927, AA613345, AA531079, AI691091, AL118991, AI350211, AA569240, AI754658, AW131249, AI860013, AA455483, AI633390, AA018283, AA487621, T06754, AI927116, AA488746, AI250083, AA065093, AI912383, AL037040, AL043289, AA831132, AI479966, AI284640, AA299189, AA380354, AA613397, AI584186, AI933534, AW149313, AI138455, AI954260, AA774059, AI207496, AA297769, AI525319, AI217936, AI275355, AA639326, AL038799, AA127426, AA663170, AA326372, AL042853, AW104030, AL040061, T92271, R35746, AW020340, AI003255, AA715267, AA101689, AI268334, AI268336, F07743, AA992891, AA402129, AI754253, AA715255, AA581903, T41247, AI006997, AC007514, AC002385, AC006556, AL049699, AC004491, AC005745, AC006568, AC007206, AC006017, AP000170, AC007114, AC004150, AL022326, AP000550, AL031577, AC007708, AC008018, AL049576, AC008079, AC009288, AC005923, AF111168, AC007666, AC006285, Z83826, AC008039, AF109907, AC006022, AL118507, AC006251, AC005696, AL031665, AC005871, AL008718, AI133445, AC005829, AC000029, AC004913, AC006004, AL049569, AC007421, Z82244, AC012398, Z83840, AC006059, Z93943, AC010072, AC006014, AC004519, AI035461, AC004024, AC007214, AC007879, AC002470, AC004227, AC007637, AC008268, AL035419, AC003986, AI135783,

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HNGHN93	4424	506259	1 - 342	15 - 356	
HNGHN94	4425	970856	1 - 423	15 - 437	
HNGHN95	4426	576127	1 - 426	15 - 440	
HNGHO02	4427	920373	1 - 329	15 - 343	Z96194.
HNGHO10	4428	964804	1 - 305	15 - 319	
HNGHO15	4429	576168	1 - 213	15 - 227	
HNGHO26	4430	420281	1 - 236	15 - 250	AC010168.
HNGHO28	4431	576173	1 - 361	15 - 375	AC007563.
HNGHO32	4432	575735	1 - 368	15 - 382	
HNGHO36	4433	576142	1 - 367	15 - 381	
HNGHO62	4434	840278	1 - 311	15 - 325	
HNGHO66	4435	576174	1 - 369	15 - 383	
HNGHP28	4436	576178	1 - 294	15 - 308	

HNGHP66	4437	576136	1 - 126	15 - 140	
HNGHP74	4438	577357	1 - 192	15 - 206	
HNGHP91	4439	576053	1 - 225	15 - 239	
HNGHP95	4440	577335	1 - 412	15 - 426	AC006352, AC007028, AB019440, AB019438, and AB019437.
HNGHQ27	4441	683507	1 - 331	15 - 345	
HNGHQ43	4442	576262	1 - 429	15 - 443	
HNGHQ55	4443	576144	1 - 237	15 - 251	AW407632, AI270120, AA937809, AA968509, AA305492, AA502207, AI709174, AA947369, AA730916, AI521525, AA557945, AA135761, AI537368, AA809104, AI821945, AW020150, AA492105, AA661948, AA747480, AI358501, AA525407, AA297496, AA077619, AI041681, AI041682, AA135988, HI5241, AA229159, AI289505, AW068580, Z23147, AA665330, AA015948, R98218, N22153, AA441788, AA847427, F23274, AA748140, F34826, AI679045, AA858380, AA669251, R70883, T49013, F29989, AA847508, AA229988, AI246884, T05684, AI049722, AI039930, AA714073, AI045476, AW080134, AA357987, AA229034, AA351808, AI284640, AI298079, AA598892, H02631, N35492, AA507990, AI572560, AA558003, AA187277, AA226142, AA778962, AI285453, AI358343, AI624379, AI499954, AW105737, AA181070, AI636422, AA742815, AA991792, AI249688, AI524022, AW410715, AA377730, T49933, AW190484, AA664604, AI471827, AW073498, AI929410, AI753672, AI865196, AI590459, AI750950, AW151541, AI924207, AA135811, AA670456, AA569220, AW193609, AI917891, AI035460, M87898, AC009501, AI117258, AC002059, AC004531, AC005253, AF217403, AC007055, AC006275, AC004685, S42653, AC000394, AC006312, AC005261, S77605, AI049829, AI049835, AC005568, AC005516, AC004841, AC005550, AI121603, AC002400, AI136168, AC002425, AF091512, Z85987, Z97630, AI049569, AC005081, AF024534, M87914, AI031295, AC004900, AI035697, AC004643, M87919, AC005578, S70707, AC005102, AI121658, AC007358, AI035659, Z97832, AI003147, AI021154, U75285, AC004702, U47924, AC006449, AC006552, AC009731, S75337, AI049830, AP000225, AC002054, AC005104, AP000704, AP000356, AI049760, AF001550, AC004791, AF109907, AI031673, Z82179, Z49236, AP000008, AC005086, AI022318, AI022336, AC005046, AJ006995, AC003037, AF001548, AF085747, AC004955, AC005899, AC006543, AC003098, U95742, AC006071, AP000467, AC007199, Z30993, AC005318, AC000087, AF196969, AC005585, AC009946, AC010077, AC004834, U96629, AC007216, AC006017, AC004560, AC006130, AC005581, AC005014, AC020663, AC005921, AI034351, AC009247, AF134726, AC009516, AC005295, Z83838, AI034402, AC004805, AC005280, AI031729, AC005726, AC005781, AC005082, AC006241, AF139813, AI031680, AF196970, AD000092, AC004079, AC006059, AF165926, AI031767, AC006538, AP001068, AC005256, AC000025, AC004644, AC006111, AC005088, AC005919, AC006544, AC005920, AP000116, AC005911, AI049869, AC004131, AC010205, AP000555, AC002994, AC006157, AI096761, AI008718, AI031591, M87918, AC006480, AI109798, AI021546, AC007686, Z84487, AI049653, AI109963,

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HNGHQ72	4444	576105	1 - 431	15 - 445	AC000091, AF012130, and AF012131.
HNGHQ76	4445	770126	1 - 234	15 - 248	
HNGHQ96	4446	723008	1 - 428	15 - 442	
HNGHR04	4447	576196	1 - 435	15 - 449	
HNGHR79	4448	576199	1 - 423	15 - 437	
HNGHR83	4449	576210	1 - 426	15 - 440	AL139054.
HNGHT06	4450	935706	1 - 361	15 - 375	AA204714, AA487224, AI267391, AI267160, AW438516, T59853, AA128726, AI267405, AA774106, T51817, T52748, AI267270, AC004902, X82942, M21305, M77220, AF002202, and M77221.
HNGHT92	4451	576149	1 - 235	15 - 249	
HNGHY07	4452	935331	1 - 380	15 - 394	
HNGHY31	4453	577363	1 - 433	15 - 447	
HNGHY54	4454	730769	1 - 312	15 - 326	
HNGHY78	4455	576139	1 - 318	15 - 332	
HNGHZ17	4456	860532	1 - 430	15 - 444	
HNGHZ48	4457	576181	1 - 137	15 - 151	
HNGHZ51	4458	716649	1 - 300	15 - 314	
HNGIA19	4459	576269	1 - 433	15 - 447	
HNGIA40	4460	576155	1 - 432	15 - 446	
HNGIA66	4461	678887	1 - 430	15 - 444	
HNGIC34	4462	934280	1 - 462	15 - 476	
HNGIC67	4463	576177	1 - 297	15 - 311	
HNGID03	4464	921946	1 - 249	15 - 263	
HNGID11	4465	967226	1 - 338	15 - 352	
HNGID15	4466	660299	1 - 432	15 - 446	AL133216.

HNGID16	4467	576114	1 - 329	15 - 343	
HNGID33	4468	868069	1 - 110	15 - 124	AC005072, and AF006752.
HNGID67	4469	751668	1 - 334	15 - 348	Z68324.
HNGID78	4470	576117	1 - 386	15 - 400	
HNGID80	4471	576120	1 - 352	15 - 366	
HNGID89	4472	577358	1 - 196	15 - 210	
HNGID91	4473	577189	1 - 430	15 - 444	
HNGIH02	4474	920362	1 - 339	15 - 353	
HNGIH56	4475	576122	1 - 233	15 - 247	AC003976.
HNGIH94	4476	576123	1 - 260	15 - 274	
HNGI116	4477	576154	1 - 77	15 - 91	
HNGI147	4478	576156	1 - 175	15 - 189	
HNGI150	4479	915340	1 - 319	15 - 333	
HNGI174	4480	576158	1 - 367	15 - 381	
HNGI176	4481	576153	1 - 99	15 - 113	
HNGI185	4482	576102	1 - 274	15 - 288	
HNGI101	4483	916748	1 - 345	15 - 359	
HNGI105	4484	925597	1 - 325	15 - 339	AL079339.
HNGI111	4485	964809	1 - 334	15 - 348	
HNGI159	4486	860526	1 - 311	15 - 325	
HNGI166	4487	576224	1 - 152	15 - 166	
HNGI167	4488	506355	1 - 373	15 - 387	
HNGI196	4489	779901	1 - 436	15 - 450	AI688289, AC003968, AC003960, AJ009632, Z84477, AC006374, AC008064, AC004051, AL133224, AC005156, AC000119, AC004137, AP000701, and AC006254.
HNGIK41	4490	712362	1 - 238	15 - 252	
HNGIK42	4491	713817	1 - 316	15 - 330	
HNGIK77	4492	772230	1 - 423	15 - 437	
HNGIL27	4493	839952	1 - 500	15 - 514	
HNGIL43	4494	715328	1 - 437	15 - 451	
HNGIM04	4495	615308	1 - 438	15 - 452	
HNGIM46	4496	653221	1 - 428	15 - 442	
HNGIM76	4497	770078	1 - 263	15 - 277	AC005251.
HNGIM90	4498	788715	1 - 341	15 - 355	AW089101, AA493894, AW089604, W45350, AA478355, AI630176, AI783581, AI345418, AW410354, AL038072, AA303007, AA633753, AW069084, AA721047, R99518, AL049636, AC011311, AP000151, AL109984, AL031668, D87675, AL022323, AC006241, U85195, AC019014, AC005531, AC007390, AE000658, AC004217, AJ003147, AC005682, AL021155,

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HNGIM92	4499	783495	1 - 245	15 - 259		AC007226, AC007216, and U95742.
HNGIN11	4500	964991	1 - 553	15 - 567		
HNGIN18	4501	666515	1 - 436	15 - 450		
HNGIN28	4502	860521	1 - 440	15 - 454		
HNGIO15	4503	660320	1 - 392	15 - 406		
HNGIO77	4504	576857	1 - 365	15 - 379		AL050318.
HNGIP30	4505	577338	1 - 324	15 - 338		AI633157.
HNGIP39	4506	840215	1 - 340	15 - 354		AW450501, AI444815, AI444830, and C20642.
HNGIP42	4507	860518	1 - 377	15 - 391		
HNGIP72	4508	575752	1 - 321	15 - 335		
HNGIQ28	4509	860510	1 - 422	15 - 436		
HNGIQ43	4510	715324	1 - 405	15 - 419		N52389, and AC006487.
HNGIQ48	4511	720944	1 - 406	15 - 420		
HNGIQ66	4512	506352	1 - 345	15 - 359		AF001550.
HNGIR34	4513	719088	1 - 422	15 - 436		
HNGIR92	4514	524799	1 - 382	15 - 396		AA642060, AW021583, AA364701, AI471543, AA630362, AA320748, AW270382, AA302308, AA828680, AA121651, AA534010, AA535406, AA829106, AI625292, D25870, AW245747, AA508509, AA515549, AA310158, AA947547, AA584752, AI672135, AA338522, AA346692, AA384502, AA614069, AA584201, AI674873, AA482801, R65755, AA503600, AI343137, AL109842, AL008635, AP000230, Z83840, AP000144, AC004098, AC006251, AL022326, AC006430, AC009516, Z98200, AC002350, AC007488, AC004254, AP000330, AL021937, Z99716, AL121658, U95740, AL022238, AC010200, AC000052, AL022476, Z14320, AC002310, AL023807, X87344, AC004019, AC005412, AL080243, AC005041, AC005778, AC008372, AC005736, AC006111, AC005324, AL117694, AC004526, AC005280, AC007676, AL035079, AP000352, AC005251, U85195, Z85986, AL023284, AE000658, AC002985, AC005197, AL122003, AL031848, Z93017, AC008079, AC002045, AD000092, AC006271, AL109984, AL022318, AC005212, AL078581, AP000356, AL121603, AF217403, AC007684, AC005181, AC016027, AP000553, AC016830, U91326, AB001523, AC006115, AC006449, AC006001, U95742, Z69919, AF055066, AP000556, AC007216, AL109837, AC005888, AC007193,

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HNGIS13	4515	575753	1 - 433	15 - 447	
HNGIS30	4516	575758	1 - 387	15 - 401	
HNGIT70	4517	953890	1 - 337	15 - 351	AP000289, AP000042, and AP000110.
HNGIU55	4518	576804	1 - 356	15 - 370	T89425, AA767864, AW182499, AC005048, AL096791, AC002288, AL049776, AC005335, AC003041, AL121658, AL133163, Z97053, AL024498, AC005822, AL096712, AJ004799, AL096677, AC007773, AP000152, and AC005321.
HNGIU78	4519	666261	1 - 1165	15 - 1179	AI990528, N32583, AI912629, AI797685, AW271508, N48797, N63434, AA028097, AA600208, AI625030, AI400958, AI634765, AI476166, AA028193, N53089, AA027192, AA983548, AI275119, N95741, AI985384, AI089985, AI436753, H46571, AA948552, AI961496, N41920, AW268829, H82459, H30219, AA761602, AA595696, AA702431, AA813396, H57726, AA204768, AI357228, AA973078, H82509, AI650605, AI954387, H89069, AA279240, AI572804, AA027191, AI000790, AI221539, N45589, T87206, R22923, AA456515, AI805811, AI521168, AI253183, AA815372, H30888, AL119319, AL039912, AW392670, AL119484, AL119324, AL134527, AL119335, U46347, AL119391, AL134525, U46351, AL119457, AL119522, AW363220, AW384394, AL119363, AL119497, AL119355, U46341, AL119444, AW372827, Z99396, AL042542, AL043003, U46346, AI064830, AB026436, AR043113, AR066494, AR060234, and A81671.
HNGIV01	4520	913687	1 - 483	15 - 497	
HNGIV24	4521	766775	1 - 198	15 - 212	
HNGIV81	4522	777970	1 - 720	15 - 734	AL049743.
HNGIW70	4523	883086	1 - 572	15 - 586	H90844, AF111168, Z85986, AP000088, AC007565, AC010197, AP000556, AC004167, AC002470, AC009516, AC004526, AC004030, AP000228, AF111169, AC006160, AP000140, AC004560, AC006120, AC006509, U91326, AP000552, AL031295, AC007546, Z84469, AL079342, and AC005940.
HNGIW73	4524	764456	1 - 345	15 - 359	
HNGIY22	4525	674660	1 - 261	15 - 275	
HNGIY36	4526	707323	1 - 182	15 - 196	

HNGIY56	4527	868065	1 - 339	15 - 353	
HNGIY60	4528	740404	1 - 148	15 - 162	AA448018, and AB016816.
HNGIY79	4529	775229	1 - 518	15 - 532	AA306200, H09834, and Z99714.
HNGIY92	4530	792737	1 - 349	15 - 363	AI268789, AL031297, and AL021155.
HNGIZ36	4531	670962	1 - 388	15 - 402	
HNGIZ56	4532	733439	1 - 303	15 - 317	AC006465.
HNGIZ69	4533	757599	1 - 423	15 - 437	
HNGIZ82	4534	668704	1 - 409	15 - 423	AI674585, and AW137161.
HNGJA15	4535	787570	1 - 959	15 - 973	AL110505.
HNGJA18	4536	666512	1 - 292	15 - 306	
HNGJB34	4537	936011	1 - 424	15 - 438	T15352, AA586366, AA585098, AA585325, T18597, AA170832, R29657, R45895, AA585101, D53161, Z32822, C15406, Z32887, D57491, D59751, R28735, R29445, C15069, D61185, AI557718, AA585155, AI557740, AI525316, AA585378, AI557262, AI526184, R28892, AI557864, AI541356, R28965, AA585439, Z28355, AI526140, AI541365, AI525500, D60765, D54897, AA585329, D60844, D59436, R29218, C16294, AI526078, AI541517, AI557731, R28967, R28895, AI557727, AI541205, AI541535, AI546971, AI525556, C16315, Z33559, AA283326, AI541383, AA585476, AI546999, AI547250, AI557763, AI546875, D55233, AI540903, AI526016, AI547039, D61254, D53447, AI557734, AI557084, C16292, C15120, C15762, D54850, D52835, D53472, D51433, AI557787, AI541346, C16300, AI541013, AI535639, C16293, AI557807, AI525306, C16305, C15737, AI557809, AI541374, AA585356, D60730, AI557758, AI546945, AI525431, AI526191, AI557155, AI541034, AI547196, D59458, C16296, AI526194, AI557408, AI547202, AI541523, AI557533, R29179, Z30131, AI525339, D57186, AI526112, AI557602, AI546831, AI546921, AI541307, AI526109, AI546996, AI540967, AI546891, AI547006, AI526024, AI526117, D78224, AI525856, AI557279, AA585430, AI540974, AI535660, AI541321, AI541515, AA585453, AI525320, AI557808, Z36724, C14208, AI526176, AI541402, R29262, AI557852, R29172, AI541492, AI526113, AI526195, R29177, C16290, AI541527, AI546829, AI526158, AI526146, AI556967, T19407, AI546901, AI541516, AI557317, AI536138, AI525168, AI541422, AI557039, AI526073, AA585389, AI526205, AI547137, AI541510, AI525656, AI557786, T41289, AA514191, AI557264, AI525332, AI557799, AI526180, AI557810, AI526187, AI546954, AI525286, AI525114, AI524904, AI557041, AA585117, AI547189, AI541423, AI541027, AI524891, AI525076, T41329, AA585434, C14210, D61060, C14322, AI541506, AI541415, AI239433, AP000543, AR038855, AR062871, A25909, Y09813, X82786, A85395, A70872, A70869, A85476, X76012, AR037157, X81969, U87250, Z32836, AJ244005, Y16359, AR054723, AF082186, AR038762, AR031358, D50010, X55486, AR031365, D13509, AJ244004, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR017907, AJ244003, AJ244006, AR017826, AJ243486, AC005913, AR003381, A98420, A98423, A98432, A98436, A98417, A98427, AR008429, Z30183, A62298, AF213384, AR050070,

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HNGJB52	4538	724406	1 - 432		15 - 446	AC005950, and AC001228.
HNGJB68	4539	753060	1 - 371		15 - 385	AA618452, AI284640, AW270382, AL121235, AI537506, AI539563, AI357551, AI364809, AI431303, AI754955, AA720702, AW021583, AA658362, AA747777, AI457397, AA533303, AA548511, AA503475, AI679045, AL040921, AA593247, AA713891, AI434695, AI358431, AL046457, AI038123, AL044858, AA584145, AL038474, AI821271, AA101689, N27584, AI355224, AA523838, AA535406, F17891, AI745325, AA724333, AA804962, AI674873, AA534204, AW265699, AA683258, AA534010, AI270248, AI246119, AI053790, AI805607, AI684097, AA856954, AA053635, AL022328, AC004139, AP000459, AC007308, AL031283, AC006153, Z93241, Z98036, D87675, AC004019, AL031848, AC004673, AP000745, AC004808, AC005242, AC006480, AC007057, AL049872, AC000052, AP000556, AL031670, AP000349, AL049760, AF134726, AC007242, AC004386, AC002470, AC007514, AC004499, AL031668, AP000088, AL008718, AC005815, AC006948, AP000122, AP000054, AC006991, AP000553, AL031346, AL009179, AC005231, AC010205, AC005902, Z83845, AC007040, AL022329, AC009405, AL049758, AL049539, AC005787, AC007262, AL034451, AL050318, AC005940, AL022721, AL049766, AC005004, AL049829, AC003684, AP001137, AL031295, AL022238, AL049699, AL049692, AP001053, AC011456, AC005089, Z83840, AC005632, AL133245, AC007748, AC005324, AC002316, AC005768, AL078472, AC005923, AC002301, AL024498, AL118516, AC005409, AP000031, AC004492, AC005005, U62317, AL118497, U52112, AC005250, AE000658, AL049643, AC006006, AC000353, AC006042, Z75746, AC002365, AC006132, AC005512, AF107885, U85195, AL096701, AC003668, AL022323, AB009667, Z97056, U07000, AC002310, AL121877, AL080317, AC003668, AL022323, AB009667, Z97056, U07000, AF042090, AC005071, AL035249, AP001054, AC005332, AC005043, Z86090, AC005900, AB001523, AP000326, AC004638, AC005154, AP000023, AC004531, AC009516, AC004600, AC005924, AC006322, AC004963, AC003986, AL118509, AC009227, AC000067, AC004876, AL008582, AP000169, AC005509, AL050341, AF038458, AC004230, AC006071, AL049780, AC007666, Z82215, AC002404, M87919, AC005527, AC012627, AC007298, AC006515, AP000966, AC009044, AC005225, AL078623, D84394, AL035587, AL023284, AC005180, AC004675, AP000356, AC002418, AL049873, AL031257, AC005781, AL034553, U95743, L77570, AL132994, and AC007878.
HNGJC60	4540	723380	1 - 404		15 - 418	
HNGJC66	4541	786924	1 - 339		15 - 353	
HNGJC76	4542	739500	1 - 162		15 - 176	AC005915.
HNGJD15	4543	660312	1 - 201		15 - 215	
HNGJD61	4544	774154	1 - 737		15 - 751	
HNGJD71	4545	760397	1 - 428		15 - 442	AB022522, AB022521, AJ012652, and AB012162.

HNGJD76	4546	670948	1 - 339	15 - 353	
HNGJE16	4547	661976	1 - 366	15 - 380	
HNGJE33	4548	795219	1 - 409	15 - 423	
HNGJE40	4549	960003	1 - 380	15 - 394	
HNGJE56	4550	669732	1 - 415	15 - 429	
HNGJF26	4551	666504	1 - 399	15 - 413	AL096853.
HNGJF65	4552	698487	1 - 575	15 - 589	AW293616, and AA661680.
HNGJF73	4553	683440	1 - 395	15 - 409	
HNGJF79	4554	775221	1 - 142	15 - 156	
HNGJG15	4555	660308	1 - 421	15 - 435	AL021528.
HNGJG37	4556	708703	1 - 376	15 - 390	
HNGJG72	4557	970797	1 - 387	15 - 401	
HNGJG89	4558	778294	1 - 240	15 - 254	
HNGJH09	4559	415566	1 - 292	15 - 306	
HNGJH11	4560	860350	1 - 435	15 - 449	
HNGJH35	4561	952237	1 - 337	15 - 351	AL045943, AL134524, AL042377, L26292, AF190465, AC007425, AC005520, AC002540, AL035420, U89387, AC006241, AC005911, AC005519, AL049557, AL031681, and AC005940.
HNGJH50	4562	666843	1 - 435	15 - 449	
HNGJH96	4563	953648	1 - 246	15 - 260	
HNGJI29	4564	690667	1 - 373	15 - 387	AC005058.
HNGJI35	4565	707328	1 - 375	15 - 389	
HNGJI42	4566	465160	1 - 405	15 - 419	
HNGJI54	4567	465159	1 - 369	15 - 383	
HNGJI71	4568	760393	1 - 412	15 - 426	AI124706, AA307598, T74524, AI609972, AI755214, AI754567, AA658918, AI754105, AW328331, AA527209, AA654038, AA535216, AA643770, AI380617, AW304699, AI612142, AA714110, AI251576, AW274191, AI306232, AA704393, AI912401, AI583466, AI583252, AI733647, AI187148, AA533545, H07953, AA225890, AA747757, AA084609, AA297666, AA515138, AA829036, AW275432, H53284, AI049630, W60522, AW275412, AL118925, R92629, AI446336, AW300749, AA720774, AA904211, AI733662, AI244157, AA877992, AW083678, AA513551, AP000496, AF085946, AL050341, AL031985, AC006071, AC003685, Z93017, AC005184, AL132987, AC006277, AC006312, AC005412, U67813, Z97054, AC005484, AC005800, AC002544, Z98750, AC006237, AC004167, L13176, AC006254, AP001053, AC002115, I34294, AL021707, Z93930, U91326, Z98884, AL080243, AL035587, AC003957, AC004972, AL021546, AL023553, AC007276, AL049872, AC004805, AL031281, AC005049, AF038458, U80017, AL133243, Z99943, AC006441, AL121658, AC004638, AL022336, AF111169, Z99495, AC004084, AL139054, Z94056, AC004534, AL008583, AP000501, Z93016,

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HNGJI77	4569	772215	1 - 344	15 - 358	
HNGJI83	4570	781213	1 - 400	15 - 414	W26162, and AL022721.
HNGJJ22	4571	597096	1 - 447	15 - 461	T64224.
HNGJJ51	4572	725702	1 - 110	15 - 124	
HNGJK04	4573	615288	1 - 393	15 - 407	AC002365.
HNGJK06	4574	935548	1 - 267	15 - 281	
HNGJK12	4575	970686	1 - 213	15 - 227	AC004856.
HNGJK23	4576	707327	1 - 113	15 - 127	
HNGJK29	4577	663954	1 - 162	15 - 176	
HNGJK42	4578	713810	1 - 387	15 - 401	AW274296.
HNGJK50	4579	860196	1 - 384	15 - 398	
HNGJK54	4580	730713	1 - 225	15 - 239	
HNGJK58	4581	736080	1 - 387	15 - 401	AA491767, AA714011, AA644090, AA302690, AI243789, AI567676, AW236288, AI270476,

				AA365586, AA021429, A1742168, AA481887, AA130647, AW188869, AA368616, A1791408, A1791720, A1254779, AA570441, AA833896, AA481970, A1829331, T50694, AA833875, H47461, A1002810, AA457408, A1224387, AW238341, AW020612, AA587516, AA557790, AA128511, A1084348, A1679871, AA600368, AW302017, AA595661, R79396, N27751, AA130855, H80989, AA721645, AA525753, A1044966, AA565426, U66083, AC005821, AC002477, A1133448, AC004913, AC005409, AC004975, U89337, AC005399, A1031589, AC004659, I44140, AR036572, U91328, A1031681, AF045448, AC004983, AF023268, AC004878, A1049694, AC007785, AC006480, A1034423, A1080243, AC007151, AC005726, Z94160, AC006101, AF069489, AC005902, I34294, A1109963, AF064860, AC007226, AC003109, AC006111, A1035086, AC005971, AC004967, AC005049, A1008725, A1049780, AC006596, M87889, AC005519, A1133399, AC006511, AC002302, AC000085, AP001053, AP000704, AC005089, AC002126, AP000008, AC005291, Z95331, A1049576, AC005972, AC006071, AB020868, AC004851, A1022316, AC003108, AB004907, AC000024, Z93241, AC005529, AC003982, A1132712, AP000247, AC005028, AC006166, AC000073, AP000512, AC006241, AC000353, A1021878, AC006080, A1022476, AC004554, AP000330, AC005666, A1035671, AC005602, AC004150, A1117352, AC004686, AP000689, AC006077, A1031680, AC004985, AC005330, AC002558, A1034553, AC005566, A1035458, A1021407, A1022069, AC004007, AC003962, AC005952, U95740, A1022721, AB023051, A1022165, AC006040, AC005527, AC000159, AC004098, AC006013, AC002511, A1035681, Z83840, AC004647, Z85987, A1135783, AC006026, AC005069, AC004750, AC005513, AC002312, A1049636, Z68870, A1035455, AF165142, AC007242, AC005907, AC005796, AC004836, AC005568, A1035398, A1109623, AF111167, A1021397, AC005697, A1035420, A1135960, A1131016, AF031078, A1022327, AD000091, AP000047, A1035683, A1031311, AC005014, AC004854, AP001054, AF064861, AF030876, A1022320, AC004477, AB003151, Z98949, AC005764, AF165926, AP000143, AC006449, AC005736, AC006538, A1031587, AP000090, AC002350, AC004019, Z98752, A1031295, A1009181, A1034549, AC005067, A1096678, AC008115, AF124523, AP000115, A1008719, AC005670, AC000003, AC005899, AB023049, A1033538, AC007016, AC004525, A1133445, AC002303, AC004559, AC007848, AC006509, AC006530, A1110502, AF053356, AP000240, A1022313, A117344, AF207550, Z86090, U95742, AP000346, AC005412, AC002984, AF195658, A1021707, AC005057, AC006012, AC005225, AF111169, X55448, AC004644, AC005306, Z98036, AC007011, A1133244, D87675, AC005564, AC005874, AF134471, AC005288, U91321, A1003147, AF196969, A1031846, AC002314, AC007227, U91323, Z82244, AC004682, AP000248, AC005058, A1031584, A1021528, A1021391, AC006236, AC005229, AC007216, A1031662, AC003030, A1035414, AC016027, AC004883, A1034429, and A1049776.	
HNGJK71	4582	739323	1 - 366	15 - 380	A1035106.
HNGJK77	4583	732737	1 - 530	15 - 544	AC006084, AC004820, and AF118125.

HNGJK89	4584	772218	1 - 336	15 - 350	Z98747.
HNGJL16	4585	661977	1 - 363	15 - 377	AI908137, AA644021, AA552280, AA320136, AP000502, AC006026, and AF134726.
HNGJL26	4586	681819	1 - 355	15 - 369	
HNGJL27	4587	725295	1 - 563	15 - 577	AA132777, AA809070, AI799864, AW076105, W22288, AI586953, AW192068, AA470553, AI288805, AA470607, and AA470506.
HNGJL60	4588	462981	1 - 427	15 - 441	AC007436.
HNGJL73	4589	783518	1 - 333	15 - 347	
HNGJL76	4590	793537	1 - 596	15 - 610	T59857, AI057232, AA077670, AI056766, AA076992, AI683105, AA633727, AW439721, AA076966, AA077800, AI057266, AA491063, AA854897, AA703747, AA491139, AI125775, AA279111, AI580834, AA490952, AA430496, AA450019, AI038182, AA156779, H29782, AC004916, AC004987, AF109718, AI133216, and AC006328.
HNGJM20	4591	964800	1 - 439	15 - 453	AC004672.
HNGJM35	4592	707324	1 - 122	15 - 136	AA679195, and AB002375.
HNGJM82	4593	967328	1 - 848	15 - 862	AA776881, AI961747, T70076, AI631548, AI198396, AI560937, C04802, AA650160, AI003674, AP000523, AC006453, AI049911, AC002038, AC002307, AP000544, and AP000543.
HNGJO10	4594	964678	1 - 395	15 - 409	
HNGJO35	4595	707329	1 - 390	15 - 404	
HNGJO45	4596	717069	1 - 394	15 - 408	
HNGJO73	4597	668997	1 - 348	15 - 362	AW151247, AA360082, AA610353, AA666295, F17549, R17793, AA862218, H11470, AW082006, AA910680, AW387775, AW387778, AA490951, AA588001, AA370455, T47970, AI791659, AA610588, AW387786, AI041749, AI133355, AA177130, AA062982, AA345064, R23873, AI031120, AC004787, AI008582, AP000331, AP000172, AP000057, AP000125, AB023050, Z97832, Z95329, U91326, AC002544, AI096763, AC007406, AI035458, AP000030, AC004228, AC004929, AP000251, AP000133, AP000211, AF020802, AJ229041, AI133448, Z83844, AC005544, AB003151, D89870, AC004152, AP000689, AB020868, AC020663, U52112, AP000512, AP000687, AC006211, AF139813, AI117337, AC004854, Z75887, AC005829, AF003529, AC009247, AI049869, L78810, AC004596, AF111169, AI035659, AC007536, AI050348, AC004797, AC006064, Z94865, AP000151, AC010436, U95742, AP000009, AC007216, AC006121, AC004967, Z98884, AC007225, AC004973, AC005823, AP000302, AP000114, AP000046, AC007276, AI031846, Z93241, AC007676, AI031670, AC009069, AI035684, AC004777, AC006468, AI031311, AI080243, Y07848, AC006130, AC000026, AC002059, AI139054, AC005695, AF205588, AC008372, AF196779, U63721, D87675, AC005071, AC005291, AC005874, AF134471, AI034561, AC006456, AI050307, AC002115, AC002302, Z86090, AR004690, AC005377, AC005899, J05096, U80459, AI049737, AP000694, AI031291, Z94055, AC004099, AC003682, AC005011, AI133445, AI109801, AI022323, AC003025, AP000702, AP000703, AC004160, AC005231, AC006312, AP001046, AP000692,

HNGJP03	4598	860363	1 - 419	15 - 433	AL133163, AF118808, AC005696, AC002347, AP001054, AC007160, AC005245, AC007024, AL022313, AP000511, AL031255, AC007436, AC005070, AL021393, U91321, M19364, AL133353, AL121652, AC004703, AL020997, AC006600, AP000553, AL031984, AC003982, and AC003102.
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HNGJP10	4599	964668	1 - 662	15 - 676	
HNGJP80	4600	766278	1 - 432	15 - 446	AC006571.
HNGJQ14	4601	881542	1 - 356	15 - 370	
HNGJQ23	4602	789764	1 - 476	15 - 490	
HNGJQ25	4603	924652	1 - 488	15 - 502	
HNGJQ35	4604	707326	1 - 376	15 - 390	
HNGJR01	4605	916555	1 - 542	15 - 556	AA342681, AA581914, AA775049, T48872, R26134, A1754955, AA441788, AA551798, A1360514, AA077776, A1446474, AA649642, R92640, AA662974, AA663306, A1445815, A1049996, AW268190, AW265654, A1978792, AL037910, AA483655, AA649553, AA558298, AW021917, A1597832, A1284108, AA780929, A128592, AA577732, A1345695, A1114752, A1862716, A1865213, AA809189, AA437402, A1284640, AA482896, AA121919, F29989, AA487542, AA167741, T94094, H58472, AA720732, AW188976, R83838, F23255, AA161181, H64777, AW339622, A1014378, AL036854, AW088058, AA747472, T40612, R32200, AA614010, C14692, F17700, AL120245, AA296859, A1865988, AA527730, AW268277, A1885572, H84359, A1241705, AW337454, AW271904, AW189068, AW440633, A1524540, AA501614, W01999, AA516047, T40617, T52478, AA584489, A1079129, AA679872, A1453233, AA595625, AA747375, AA904275, AA515350, AA557879, T47739, A1160117, AA593471, R82388, T06828,

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HNGJS24	4606	677235	1 - 319	15 - 333		
HNGJS45	4607	720746	1 - 121	15 - 135		AL022147.
HNGJS53	4608	728258	1 - 432	15 - 446		
HNGJS64	4609	746606	1 - 409	15 - 423		
HNGJS91	4610	920755	1 - 415	15 - 429		
HNGJT36	4611	888329	1 - 432	15 - 446		AC002483.
HNGJT72	4612	775502	1 - 371	15 - 385		
HNGJT93	4613	792338	1 - 332	15 - 346		
HNGJT95	4614	953418	1 - 345	15 - 359		
HNGJU36	4615	708122	1 - 638	15 - 652		AL133216, and AC004883.
HNGJU50	4616	724416	1 - 399	15 - 413		
HNGJU51	4617	725703	1 - 287	15 - 301		
HNGJU78	4618	860347	1 - 420	15 - 434		AI345721, AI640679, AA547976, AI187148, AI281622, H90688, AI369076, AI653776, AW407007, AA230155, AA515742, AW157173, AA523719, AW302078, AA584756, AA984920, T52745, AA362440, AA492264, AL134216, AA515451, AL043745, AA632593, AW328331, AA584527, AW328330, AA354507, AI096738, AA572813, T12424, N69313, H94979, AA630947, AW242279, AI380617, R98835, R94909, AI570019, AI112864, AW162314, AA835346, N87333, AI884404, AW162332, AA564925, AA196287, Z98884, AC009363, AC007056, AC005225, AC004035, AC005362, AL023553, AC006241, AL035411, AC005412, AF044083, Z97054, AC005667, Z97632, AC005695, AC005237, AC007450, AC004485, AC004106, AC004098, AC005841, AP000116, AP000049, AP000311, X96421, U89335, AC003666, AC000052, AF102137, AL035462, U95739, AC004922, AC004685, AC004638, AC003070, Z85986, AP000350, AC005325, AC006581, AL078621, Z92542, AF111168, AL008719, AC004757, AB020868, AC005962, U91318, AC006274, AP000255, AP000213, AP000135, Z86090, AP000031, AL078638, AL133445, AC000393, AC005553, AP000210, AP000132, Z84469, AC004859, AP000248, AC005971, AF143866, AB007914, AP000300, AC004834, AC002036, AP000045, AC005091, AC005215, AC003684, AL049569, AC002429, AC004262, Z83819, AL035458, AL135745, AC007114, AL035460, AC005666, AC009044, AC007540, AC006450, AC006040, AC006088, AL031432, AL022394, Z94056, AC003030, AC007536, AC005846, AC006576, AC004941, AL022313, Z95331, AC001231, AC005993, AC020663, AL035405, AC006487, AF064105, AF165926, AL118503, AL117330, AC005328, AL023801, AC005793, U62631, Z68756, AC004643, AC005783, AL022302, AC004802, Z98749, Z98051, AC003002,

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HNGJV04	4619	615283	1 - 210	15 - 224	
HNGJV10	4620	964672	1 - 402	15 - 416	
HNGJV91	4621	790213	1 - 235	15 - 249	
HNGKA62	4622	876593	1 - 508	15 - 522	
HNGKB11	4623	966119	1 - 516	15 - 530	AA121830, AW402301, H38504, AA227281, and AL050037.
HNGKB25	4624	944424	1 - 706	15 - 720	H53110, AW419161, AA551509, AA878495, AA345333, T07346, T51743, AA525407, H81732, AA658235, AA441788, AA773289, AA134367, AA428414, AA583579, AA602557, AL358343, AA335519, AL366902, AA679493, AW062724, AA583568, AA723017, A1952786, A1707788, F35113, AA301813, R44592, A1446464, H68343, A1753037, AL042213, AA508509, AA171941, A1037897, AW327868, AA932099, T48872, A1439360, A1246796, AA525331, AA557686, AA658018, AL045455, AL335963, AA633964, F00949, A1016704, AL109798, AP000692, AL021579, U02050, AL121603, AC005288, L78833, AC002425, AC004741, AL035684, AC005088, U27336, U27334, AP000555, AC008498, Z98941, AF131211, AC004682, AC007536, AL049569, AC004736, AC006463, AF030453, AB016897, AL050312, AC001228, AC004856, AF196971, AP000315, AP000885, AC005102, AL133448, AP000359, AL121653, AL034379, AC005786, AL133245, AC004158, AP000501, AP000115, Z97056, AP000045, AL035086, AC002301, AL135879, AL121790, AP000089, AP000165, AC006449, AL022316, AC005215, AL135960, AJ131016, AP000193, AC004792, AC004985, D16583, AL031846, AL109984, AC004030, AC008040, Z99755, AL022238, AF024533, AC004531, AC008163, AC006432, AP000050, AL031733, Z82185, AC006455, Z85986, AP000117, AP000310, AF050154, AC005972, Z68287, AC020663, AL031905, D87675, AC004383, AC005695, AF190465, AP000118, AF124730, AL009031, AL049832, AC005911, AC002326, AC004129, AL035659, AC007686, AC006561, AL008629, AC005306, AC007199, U75931, AC016026, AL031053, U95742, AC004814, AC002310, AL022574, AL117258, AC004168, AC005375, AL121578, AC002091, AC006160, U66059, AC004678, AL008718, AP000553, AL133163, AC005225, AL079340, AC003695, AC002527, AL022721, AC005837, AC007021, AL035681, AC007157,

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HNGKB78	4625	971110	1 - 760	15 - 774	
HNGKB93	4626	791760	1 - 291	15 - 305	
HNGKD55	4627	860343	1 - 588	15 - 602	
HNGKD94	4628	793414	1 - 553	15 - 567	AW270385, AI355246, F35684, AA714011, AI355103, F23338, AA484892, AA282951, AI190648, AA831408, AA503142, AI185394, AA664126, T47138, AI310992, AI300818, AA158549, AI370170, AA857812, AW272815, F34506, AA769141, AA846923, AA558404, AI761677, AW104163, H79586, AW069227, R67701, AI310464, M85711, AI625604, AA568314, AL041375, AW419389, AI362442, AI537995, AI536858, AI130709, AA534208, AI869786, T03412, H29914, AI572680, AW151018, AA654482, AA354695, AA669961, AW237905, AA018231, AW188742, AW272640, AA182731, AA809186, AW023111, AA568204, AA570740, AA582746, AA483606, AA523695, AI634187, AA314891, AA347382, AW008169, R83068, H67064, AA573000, H13120, Z30294, AI431513, AI457313, AA668587, R93919, R79255, AI278972, AW002831, AA491767, AA458534, AI288033, T94394, AI189682, T50676, AI285493, AA878407, AA856841, T05617, AA600202, AW302017, AA553594, AI620992, AW162750, AW192402, AC004883, AC005971, AP000117, AC005280, Z95152, Z98304, Z94036, AC004973, AC006344, Z86090, AC004033, AI109627, AC005551, AC000381, Z81357, AI035588, AL096773, AC005722, D88268, AF134726, I34294, AC004893, AC005237, AF207550, AC004878, U73330, U82828, AC006388, AL035659, AC005821, AF051976, AC007546, AL022326, AC003070, AC005089, AC004150, AL049759, AP000696, AC007193, AC011311, AF002223, AL021393, AL096701, AC004963, AC007283, AL021808, AC005378, AL035562, Z92546, Z98750, AC005216, AC004983, AL031255, AE000662, AB015355, Z93241, AC007567, AB016897, AC002400, AP000049, AP000116, AC004522, AC002425, AL049776, AP000500, U62293, AF047825, AP000311, Z85996, M94081, AC002551, AC008126, AC005057, AC006536, AF217403, AP000337, AP000216, AC004881, AC004771, AL031597, AL080245, AC005183, AL049748, AC006125, AL035695, AP000503, AL049834, AF129756, AC006057, AC004417, Z83820, AF001549, AC005317, AP001063, AL078611, AC004253, AL035405, AC006071, AF001550, AC007308, AC006441, AC006116, AC005206, AC005391, AC002470, AB012723, AC004943, AL031228, AL080243, AC004955, U63721, AL117340, AL031670, AP000555, AC005667, AC007030, AP000010, AL031659, Z98200, AL121852, AL117355, AL031005, AL121769, AC004974, AP000359, AP000353, AD000684, AC002128, AC005071, Z98752, AL035420, AL034417, U52112, AF075098, AC006360, AC000393, AF037338, AC006960, AF097738, AP000103, AL022327, AC005779, Z97630, AL050321, AL033517, AL121652, AC005793, AC004929, AC006480, AC005225, AP000502, AC002351, AL024509, AL031295, AC004831, AC006241, AL022311, AL117337, Z94801, AP000565, AC006061, AC005686,

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HNGKE05	4629	860320	1 - 529	15 - 543	AL138265, AI801482, AI963720, AI370074, AI370094, AI284640, H71429, AW193265, AA610491, AW088718, AL119691, AI249997, AI708009, AW327868, AI431303, AA483223, AL046409, AI312309, AL041690, AA101689, AW021583, AA469451, AI355206, AA569471, AI334443, AW303196, AA652057, AI345654, AL044858, AI307608, N75702, AW249224, AW301350, AW274349, AA720702, AL042420, AI270117, AI305766, AA665330, AL138455, AA192747, AW304584, AA877817, AA490183, AW439558, AW265170, F36273, AL046205, AL079645, AA587256, AI305547, AA649642, AI890928, AW265393, AI368256, AI254615, AI890570, AI133164, AW020340, AI956131, AI888518, AL047427, AW103758, AI110770, AA525416, AI754658, AW088846, AA847499, AA493471, AA551503, AI350211, R24205, AL037683, AL048925, AI613280, AW276827, AI246119, AW408717, AA178953, AA192740, AA747105, AL044940, AI357288, AI568678, AW023672, AA679124, AW276817, AI061334, AA640900, AI962050, AA394271, AI919265, AA526787, AI814735, AW073470, AI133102, AW410400, AA491814, AL042753, AA468131, AA521323, AA581903, AA468022, AA587604, AI434695, AI281881, AI570261, AI064864, AI457397, AW004911, AI345681, AI345675, AI345518, AA834792, AA503475, AI313166, AI561060, AI679782, AA214342, AW438643, AA623002, AI890348, AI368745, AI732764, AW029038, AI149478, AA631507, AI589230, AI289067, AA653618, AW340844, AW265385, AA521399, AI341664, AW276435, AI345157, AA470969, AL038705, AW193432, AA810318, AI224093, AL045053, AA758934, AA486559, AI473943, AI801600, AI610159, AA559290, AI254316, AI344844, AA584581, AI669453, AI688846, AA669840, AI801591, AW261871, AA908687, AI619997, AW238278, AA610271, AI375710, AL039958, AW419262, AL037554, AI471481, AW070892, AI865905, AA601492, AA846935, AA503154, AL120269, AI085719, AW162049, W31373, AI928790, AI929531, AA225230, AW248803, AI053672, AA309841, AI307201, AI076616, AA661948, AW270270, AA601371, AL040130, AW269488, AA164251, AA601355, AA482806, AA828712, R71981, AA583955, AA904275, AW148792, N48230, AL120502, AA806796, AL119984, AI471572, AA205915, AL046457, AL042856, AW072587, AW072923, AI744995, AA665021, AI859742, AL138421, AI679132, AW088616, AA542991, AI580652, AW008317, AI053790, AA680243,

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HNGKE07	4630	952221	1 - 348	15 - 362	AA633727, AA703747, AI057232, AL041975, AA077343, AL042361, AA703958, AA317624, AI880143, AA083243, R96964, W03215, H80600, AA491139, AA491063, AI214163, AA076680, AA084739, AI880175, AA078180, AA077670, AA211922, AL040165, H00289, AA077800, AW264118, T59857, AC004916, AC004987, AL133216, AC006328, and AF109718.
HNGKE52	4631	812714	1 - 575	15 - 589	AP000522.
HNGKE73	4632	860312	1 - 664	15 - 678	

HNGKE89	4633	786257	1 - 522	15 - 536	AL139228.
HNGKE91	4634	789685	1 - 535	15 - 549	AC004263.
HNGKE93	4635	791623	1 - 462	15 - 476	
HNGKF01	4636	915247	1 - 359	15 - 373	D80038, C14389, D51799, D59467, D80227, D80195, D80164, D59275, D59502, AA305578, D80269, D58283, D51423, D59610, C14331, D59859, D80022, D80166, C15076, D59619, D80210, D80391, D80240, D80253, D80043, D59787, D81030, D80193, D80378, D80212, D50979, D80196, D80188, D80219, D59927, D57483, D80241, D80366, D50995, AA305409, D59889, D51022, D80024, D80045, AW177440, C14429, AW178893, AA514188, D51060, D81026, T03269, D80248, AW179328, C14014, C75259, AW378532, D80522, D80251, AW360811, D80133, D80134, AA514186, AW178762, AW177501, AW177511, D58253, D51250, AW369651, AW178775, AW375405, C05695, D80132, AW352158, D80268, AW377671, F13647, D59695, D52291, D80302, AW352117, AW366296, AW176467, AW360844, AW360817, AW375406, AW378534, AW179332, A1910186, AW377672, AW179023, AW178905, C06015, D80168, D80439, D80247, C14227, AW352170, AW352171, AW377676, AW177731, AW178907, AW178906, D81111, AW179019, AW179024, C14298, D59373, D80064, AW177505, AW360841, AW179020, A1905856, C14407, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, T11417, AW367967, AW179004, D80157, AW179012, AW178914, Z21582, AW378525, AW378540, D51759, AW177722, AW177728, D51097, AW179009, AW178774, AW178911, AW378543, D58246, AW352163, AW360834, D59503, C14077, AW178983, AA285331, T48593, AW178781, AW352120, D58101, D59627, D80258, D59653, A1557751, D45260, AW177723, AW178986, A1535850, AW378533, C14975, AW367950, AA809122, AW177508, D80014, H67854, C03092, D45273, H67866, A1525923, D51213, AW177497, T03116, D59317, D60214, D80228, A1525917, C14344, C14973, AW177734, A1525920, A1535686, D51221, T03048, D59474, D59551, D60010, AA514184, A1525227, A1557774, C14957, C14046, A1525242, A1525235, A1525912, A1525215, A1525237, AW378542, AW378539, A1525928, C16955, Z33452, C05763, T02974, T02868, A1525222, AW360855, A1535961, D31458, A84916, A132110, A62300, A62298, AR018138, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, I82448, D88547, Y12724, A82595, X82626, AR060385, A94995, AB002449, AR025207, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AB012117, AR066482, AR066490, X68127, Y09669, A43192, A43190, AR038669, I18367, AR066487, I14842, A30438, A85396, A44171, AR054175, U87250, A85477, I19525, A86792, D50010, Y17187, D88507, X93549, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AF135125, U79457, AF123263, AR032065, U87247, X93535, and AR008382.
HNGKF11	4637	965047	1 - 473	15 - 487	D80045, T18597, A1536138, A1535660, A1541365, A1535639, R29657, AA585439, AA585098,

AA585325, R45895, AW366296, AI557084, D59436, AI541205, R28735, R29445, AI557864, D59751, AI525500, AI557262, D58283, AW375405, R28892, AI557731, AI541356, AI526078, AI525556, Z32887, AI557317, D80043, AI541510, D80166, AA585101, R28965, R28967, AI905856, AA170832, D80022, D80391, D59787, R29218, C14389, AI541535, D80196, AA585476, AA585329, R28895, D80253, D57491, C14331, AA585155, AI547189, D80522, Z32822, AA283326, D80188, D59467, AI525302, D59859, D80195, AI557740, D51423, D59619, D80210, D51799, D80164, D59275, D80240, D80366, D80227, AI526187, D59502, D81030, D50979, D80212, AI541346, D80219, AA585378, D57483, AI557807, C15076, C15406, D59927, D53161, D80269, D61185, D59610, D80038, AA305409, D51022, D59889, D50995, D80193, AI557408, Z28355, D80024, AA305578, AI526140, AI557602, AI557808, AI526158, D80378, C14429, C15069, D60844, AW177440, D81026, D80241, D51060, AI557155, C14014, AW375406, AI526184, AI540974, D80251, AI557852, AI546971, D60765, T48593, AA514188, AW178893, C14210, D80248, AW360811, D54897, C75259, C16315, T03269, AI526176, AI541383, D61254, AW179328, AI541517, D53472, AA514186, AI541034, D80133, D80247, C16293, AI546875, AI557727, AI557787, AI557763, AI540903, AI557734, AW178762, AI547250, AW378532, D55233, AI525856, AI546999, AI524891, Z33559, AI526016, D80132, D80439, D58253, C16300, AI547039, D53447, AI535686, AW177501, AI547196, AW177511, AI524890, AI525306, D30843, AI541374, AW377671, AW360844, AW360817, C16294, AI536070, AI557533, AI557718, C15120, AW378534, AI541013, D80134, AW179332, AW377672, AW179023, AW178905, D52835, D80268, D51250, AI541515, AW176467, AI546945, AI525431, C16292, AI546829, AA585356, C16305, AW178775, AW369651, C05695, AW352170, D80168, D80302, AI546855, D52291, T11417, C15762, AW352171, AW377676, AW177505, AW179024, AW177731, AW352117, AW178907, AW378528, AW179019, C14227, AI526194, AW352158, D51103, F13647, AW178906, AI547158, AW360841, D78224, AI525339, AW179020, D80157, AI546921, AI557758, D59373, AW178909, AW177456, AI546996, AW178980, AW179329, AI540967, AI526191, A62298, A82595, AR038855, A62300, U87250, A84916, AR018138, I19525, Y17188, AR062871, AR008429, A85395, A85476, AR016808, AJ132110, A94995, A25909, AR008278, AF058696, AB028859, Y17187, AR031365, AR016514, Y09813, U94592, X67155, AJ244007, D26022, A43190, A67220, D89785, A78862, D34614, Y12724, A70872, D88547, AR060385, AB002449, A70869, AR038669, AR037157, A44171, X82626, I82448, A30438, I50126, I50132, I50128, I50133, AR008443, AR031358, AR025207, AR066488, AR060138, A45456, A26615, AR052274, AR050070, AF135243, Z30183, D50010, AF006072, D13509, Y09669, A43192, AR066487, AR054175, X82786, AB005666, A82593, AR062872, I14842, AR066490, AR017826, AB012117, I18367, A63261, A70867, X68127, AR008277, AR008281, AR008408, AR016691, AR016691, U46128, A85396, AR066482, A85477, A86792, X76012, A64136, A68321, AR060133, D88507, AF213384, I79511, X93549, X82834, AF123263, I36913, AR032065, I79457, and AR008387
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HNGKF83	4638	780453	1 - 608	15 - 622	AA766221, D51799, AA305409, D59859, D59610, D59619, D80210, D80240, C14389, D51423, D80166, D80253, C14331, D80439, D81030, D80219, D80195, D58283, D80212, D80366, D51060, D80188, D59467, D80248, D80022, D80227, D80391, D80164, D59275, D80043, D59787, D59502, D80241, D80038, D80269, D57483, C14014, D59889, D81026, D50995, D80196, D80133, D51022, D50979, D80024, D80268, D80522, D59927, D80247, AA514186, C15076, AA305578, D80193, D80045, AA514188, D80251, D80378, AW360811, C14429, AW177440, D80302, AW178893, D80157, C75259, AW376771, AW375405, D51103, T03269, D51759, AW178906, AW366296, AW179328, AW360844, AW378534, AW360817, AW375406, AW179332, AW377672, AW179023, AW178905, AW378528, AW178762, C05695, AW378532, D59373, AW176467, AW177501, AW177511, T48593, D80134, AW352171, AW377676, D59653, AW352170, AW177731, D80132, AW178907, AW179019, AW367967, AW179020, AW178775, AW178983, D45260, AW360841, AW177505, AW352120, AW367967, AW178914, AW178774, AW369651, AW178909, AW177456, AW179329, AW178980, AW178914, AW178774, AW177733, AW178908, AW178754, AW179018, AW352158, AW352117, H67854, AW360834, AI525920, D80949, D51079, AW179004, D80228, AW367950, AW179012, AW378543, AW378525, AW378540, AW352163, AW177728, C03092, H67866, AA809122, D59627, C14973, D80168, T11417, AW352174, C14298, AW179009, D58246, AW178781, AW178911, AI525923, AW177722, F13647, AI525917, AI910186, AW178986, D81111, D80064, C14407, AI905856, C14344, D51221, T03116, D58101, D80258, D59317, D80014, D59474, C14227, D59503, AW378533, AA514184, C14957, AW177508, D60010, D60214, D51213, AI535686, AI535850, AW177734, AW177497, D59551, AI525235, AW177723, AI525227, C14046, AI557774, AI525912, D45273, AI525215, AI525242, AA285331, AW378542, AI557751, AI525925, AI525222, Z21582, AW378539, C16955, Z33452, C05763, T02974, T03048, AI525216, AW360855, AI525239, D51097, AI525237, AI525928, AI525238, D51053, H67858, C04682, Z30160, T02868, N66429, AA305720, A62298, AR018138, AR008278, AF058696, A84916, A62300, AB028859, AI132110, A82595, AR060385, AB002449, D26022, X67155, A25909, Y17188, A94995, Y12724, I50126, I50132, I50128, I50133, A67220, D89785, A78862, D34614, AR008443, AR066488, AR016514, AR060138, A45456, A26615, AR052274, D88547, A43192, A43190, AR038669, Y09669, AR066487, X82626, A30438, I82448, I14842, AR054175, D50010, Y17187, A63261, AR025207, AR008277, AR008281, AR066490, AR008408, A70867, AR062872, I18367, AR016691, AR016690, U46128, A64136, A68321, D13509, AR060133, I79511, X68127, AB012117, AF123263, AR032065, U79457, AJ000347, and AR008382.
HNGKG43	4639	958487	1 - 782	15 - 796	
HNGKG61	4640	860317	1 - 408	15 - 422	
HNGKH04	4641	926987	1 - 421	15 - 435	AC002041, AC006352, AJ239321, AC002038, AC006359, and AC004057.
HNGKI30	4642	860205	1 - 314	15 - 328	T05706, A61271, AF134707, and A61272.
HNGKI36	4643	784854	1 - 598	15 - 612	AC005939, and AC007488.

HNGK190	4644	787378	1 - 224	15 - 238	
HNGK193	4645	791671	1 - 502	15 - 516	AC022517.
HNGKJ01	4646	915231	1 - 682	15 - 696	
HNGKJ38	4647	806053	1 - 619	15 - 633	
HNGKJ51	4648	883072	1 - 690	15 - 704	
HNGKK35	4649	806051	1 - 281	15 - 295	AC005940.
HNGKO11	4650	966093	1 - 301	15 - 315	
HNGKP29	4651	860305	1 - 285	15 - 299	
HNGKS06	4652	974356	1 - 387	15 - 401	
HNGKT08	4653	958311	1 - 496	15 - 510	
HNGKT69	4654	860302	1 - 675	15 - 689	
HNGKU04	4655	926948	1 - 301	15 - 315	
HNGKV01	4656	915218	1 - 266	15 - 280	
HNGLA54	4657	860206	1 - 146	15 - 160	
HNGLC01	4658	915288	1 - 565	15 - 579	AA773098, AI800343, AI743899, R84528, L35485, AF011889, and Z84466.
HNGLD46	4659	775300	1 - 341	15 - 355	AL096867, and AB020858.
HNGLD34	4660	830026	1 - 299	15 - 313	AI351206.
HNGLE25	4661	860260	1 - 725	15 - 739	
HNGLE52	4662	835972	1 - 727	15 - 741	AL049691.
HNGLE74	4663	860263	1 - 729	15 - 743	
HNGLF03	4664	922969	1 - 610	15 - 624	
HNGLF08	4665	958312	1 - 1309	15 - 1323	AA149651, AI417864, and AA151561.
HNGLG06	4666	839088	1 - 676	15 - 690	AA654505.
HNGLH72	4667	785570	1 - 704	15 - 718	
HNGLH82	4668	954140	1 - 726	15 - 740	
HNGLJ04	4669	954943	1 - 608	15 - 622	AL132799.
HNGLJ20	4670	806045	1 - 535	15 - 549	AA297666, AI859438, AI733856, AA526099, AL046519, AA503298, AA643770, AA721645, AW020992, AA832175, AI244157, AI755214, AA640430, AI754567, AW302659, AW302705, AL079734, AA640410, AI380617, AI754105, AI349817, AI984168, AI176978, AI654247, AI469599, AA468505, AW268757, AI679045, AA167792, AI251203, AW190484, AW300650, AA904211, AW151870, AA584620, AA053463, AA857486, AW268954, AI792529, AA652834, AI610737, AW001268, AW004884, AW304805, AI251284, AI345827, AI251034, AW274350, AA135761, AI371208, AA299589, AI565126, AA405726, AW270771, AI251034, AW274350, R62710, AI281561, AA856961, AW338179, AA548610, AA833896, AI537995, AA621381, AI284543, AI061197, AA916171, AA833875, AI135377, T03583, AW303098, AA955031, AI130709, AA492105, AI087133, AI289447, AA133013, AA630854, AA223174, AI356440,

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HNGLK13	4671	785685	1 - 306	15 - 320	AL034431, and AL050317.
HNGLK65	4672	795280	1 - 508	15 - 522	
HNGLK90	4673	795225	1 - 658	15 - 672	
HNGLL03	4674	923028	1 - 408	15 - 422	
HNGLL11	4675	966105	1 - 397	15 - 411	
HNGLL24	4676	859922	1 - 635	15 - 649	T18597, R29657, AA585098, AA585325, R45895, C15406, D59751, C15069, D53161, AA585101,

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HNGLL31	4677	789193	1 - 402	15 - 416	
HNGLL41	4678	845274	1 - 774	15 - 788	AI583390, AI128511, AA502207, AA709362, M87890, S42652, AI022313, M87914, S42653, AC003101, AC004447, AI080243, AI031848, AI033527, AC005529, AC005288, AC004834, AC005776, Z99916, AC005632, AP000704, AC002352, Z85987, AC003010, AC007386, AF111167, AC004686, AC004983, AC005694, AC000379, AC006480, AC005899, AC005527, AP000501, AC011331, U95739, AC007227, AI022315, AC004953, AI080317, AC002312, AC004816, AC005837, AC007565, AC005736, AC005041, AC002565, AC005081, AF053356,

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HNGLL67	4679	860253	1 - 405	15 - 419		AA658934, AA496268, AI923052, AW069227, AW316599, AI634187, AI457313, AA452325, AW247389, W96277, AA020873, AA947369, R70883, AA614647, AA077637, AA579399, AA501460, AI270647, AI567391, AA652910, AA314338, AI798569, AW405593, AA374797, AA558366, H40478, AA363957, AW408767, T92394, AI699049, AW265688, AA226357, AA357850, AA226356, AA558404, AI004740, N86089, AA747609, AA584484, AA613623, AA493947, AI583978, F16409, AI359200, N25079, U95737, AC004216, AC002351, AC022517, AC007878, Z95152, AC002300, Z93930, AC009399, U07562, AL049832, AC003982, Z92542, AL022165, AC005274, AL022578, Z84466, AC004832, AC005799, AC003664, AC005697, AL031311, AL110502, AL049856, AC004782, AC006965, AL109963, AC004020, AL050307, AC007425, AC004757, AC005962, AL021391, AC004554, L78810, AF207550, AC006449, AL022326, AL031575, AC007684, Z82203, U91321, AF088219, AL031659, AL133555, AC007773, AC005183, AC007011, AC007238, AL031733, AC005018, AL008730, AL049766, AC005728, AC002299, AC004476, AC003957, AC004033, AL135960, AJ131016, AC002381, AC005237, Z82217, AC006011, AL109759, AL133163, AL136504, AC005670, AL031737, AC005332, AL050321, AC007386, AL096818, AL033521, AC004820, AC005486, AL049760, AC002312, Z83822, AL023877, AC007546, Z97987, AL030996, AC006236, AC002477, AC007652, AL034423, AC004098, AC006050, AL008718, AL008719, AL049733, Z95116, AC006017, AC006071, AC005476, AC002553, AC002365, AC007216, AC006576, AL022315, AL049650, AL035405, AC005155, AC003983, Z83826, Z84487, AC004408, AC002091, AL022322, AC007314, AC005702, AL049536, AL022400, AL031277, AC004813, AL022721, AL109839, AF031076, AC006060, AC005844, AL049830, Y15994, AL022345, U95742, Z94044, AL035400, AC003687, AC008249, AC005342, AC005859, AL049779, AC006530, AL078638, Z93242, AL049759, AC011311, AF152365, AL031432, AC005668, AL049709, AC006039, AC003684, AF031078, AC007868, AL035634, AP000354, AF030876, AC007539, AL035695, AF129756, AC004973, AL022158, AL030995, AC005081, AC007387, AC005411, AC005250, AC005409, AC009784, AC002390, AC007880, AL049869, U47924, AL022396, AC004966, AC003682, AC006130, AC004601, AC005597, AC007999, AL031178, AL021808, AC005284, AC002073, AF111168, AC007376, AL031295, AL117258, U07000, AL023574, and AP000346.
HNGLL91	4680	789743	1 - 407	15 - 421		
HNGLM06	4681	919222	1 - 126	15 - 140		
HNGLO10	4682	963504	1 - 562	15 - 576		D59859, D51799, C15076, D59502, D80195, C14389, D80164, D80038, D59467, D59275, D80227, D58283, D80022, D80166, D80193, D59619, C14331, D80210, D80391, D80240, D81030, D59787, D51423, D80253, D80043, D80269, D80212, D80196, D80188, D50979,

					D80219, D59927, D57483, AA305409, D80378, D80366, D59889, D50995, D80024, D80045, D59610, C14429, D51060, AW178893, D80241, AA305578, C14014, T03269, D51022, AW179328, C75259, D81026, AW177440, AW378532, AA514188, D80251, D80248, D80134, AW178775, D80522, D52291, AW369651, D59695, D80064, AW352158, AW178762, D51250, AW360811, AA514186, F13647, D80133, AW177501, D58253, AW177511, D80302, AI910186, D80949, C14298, AW375405, D80168, C05695, C06015, C14227, D81111, AW377671, D80268, C14407, D80132, AW366296, AW360844, AW360817, AW352117, AW375406, AW378534, AI905856, AW176467, AW179332, AW377672, AW179023, AW178905, AW378540, D80439, D80247, AW352171, AW377676, AW352170, AW177731, AW178907, AW178906, AW179019, AW179024, Z21582, D59373, AW177505, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, AW367967, AW360834, D80157, AW179004, T11417, AW179012, AW178914, AW378525, AA285331, D59503, D51097, D51759, AW177728, D58246, AW179009, AW177722, AW178774, AW178911, AW378543, AW352163, AW178983, AI557751, D59627, C14077, T48593, AW178781, AW352120, D80258, D59653, D59317, D58101, AW177723, D45260, H67866, AW367950, AI525923, H67854, AI557774, C03092, T03116, AA809122, AI535850, AW378533, AW177508, D51213, AW178986, AW177497, D45273, AI535686, D59551, AI525917, T02868, AA514184, D80014, C14973, AW177734, AI525920, C14344, D51221, D59474, D60010, D60214, AI525227, C14046, C14957, AI525235, T03048, AI525925, AI525242, AI525215, D59976, AI525912, AW378542, AW378539, C16955, C05763, Z33452, T02974, AI525237, H67858, AI525222, AI525928, C13958, AR018138, A84916, AJ132110, A62300, A62298, AF058696, X67155, Y17188, D26022, A25909, AR008278, AB028859, A67220, D89785, A78862, D34614, D88547, I82448, X82626, Y12724, A82595, AR025207, AR060385, AB002449, A94995, AR008443, AR016808, AB012117, I50126, I50132, I50128, I50133, X68127, AR066488, AR016514, AR060138, A45456, A85396, A26615, AR052274, AR066482, A44171, A85477, I19525, A86792, U87250, Y09669, AR066490, A43192, A43190, AR038669, I14842, X93549, AR066487, A30438, I18367, AR054175, D50010, Y17187, D88507, A63261, AR008277, AR008281, A70867, AR008408, AR062872, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AF135125, U79457, AF123263, U87247, AR032065, AB033111, X93535, and AR008382.
HNGLO70	4683	779223	1 - 431	15 - 445	
HNGLO80	4684	775504	1 - 728	15 - 742	
HNGLO86	4685	780484	1 - 634	15 - 648	T84380.
HNGLO92	4686	924891	1 - 653	15 - 667	Z59015.
HNGLR39	4687	835586	1 - 757	15 - 771	
HNGLR91	4688	789707	1 - 587	15 - 601	AC002103, and AC000401.
HNGLS86	4689	784860	1 - 609	15 - 623	

HNGLT67	4690	958777	1 - 634	15 - 648	AC004818.
HNGLX63	4691	934371	1 - 591	15 - 605	
HNGMA01	4692	915306	1 - 410	15 - 424	
					<p>H67866, AA504865, AL699049, T11828, AI004740, AA316036, AA853861, AA721998, AA714073, AA831801, AA626595, T03928, AW089950, AA832016, AA297496, R16258, AA662614, AW019964, N63755, AA256107, R97626, AI955465, AA525407, AA827383, AW057717, AA628740, AD000833, AC004087, Z82244, AL031431, AL139054, AL049570, Z93017, AC007221, AP000355, AL078581, AL031680, AP000248, AC006545, AL049869, AC006546, Z85987, AC005191, AL021154, AC006006, AC004494, AC004067, AC004224, AC007030, AC020663, Z99716, AC006312, AC005940, AC005914, AC007536, AL031311, AL109627, AP000696, Z69042, MI3792, AC007766, AC005291, AL031279, AC006211, AC012384, AC008009, AL031003, Z97056, AL133448, AL008583, AC002059, AL096702, AC006376, AC004263, AC005316, AF109907, AC004382, AC005546, AC005071, AL023807, Z96074, Z93020, AC006372, AC007021, AL109956, AC005901, AC005696, AL031728, AC002375, AL034549, AC004242, D88270, AL049569, AC002430, AC004131, Z84487, AL035659, AF196969, Z97198, AC007384, AC005156, AC007376, AC005913, AC006441, AC008015, AC005519, AC004832, AL022336, AC005792, AL033527, AC002543, Z68331, AC012085, U95742, AL022312, AP000023, AC006057, U66061, AC002350, AC006430, AF001548, U73330, AP000008, AC005317, U82668, AC008055, AC006544, Z98051, AP000466, AC007686, AC003108, AP000704, AC006450, AC000025, AC005839, AC011331, AC004585, AL022313, Z83826, AC004671, AF001550, AC004125, AL035072, Z98941, AC004920, AL022162, AC005154, AC005247, AC005220, AC004158, AL035420, AC006965, AC005509, AL033377, AP000505, AC006042, AC007429, AC006146, AL133163, AC005622, AC004253, AL031657, AC004099, AC005670, Z82217, AL137447, I34294, AC005632, AC006530, AC005730, AC005005, Z82215, AC005874, AF134471, Z83840, AC005081, and AC005971.</p> <p>AW069159, AA525760, AW020321, D80522, AA468131, AA468022, AI866160, AA714110, N55508, AA666332, AI828733, W03286, AW327868, D80043, AW277171, AL038799, D80188, AW401408, D80251, AL120959, AI561097, D80366, D80253, AI470431, AW089101, AA846952, AA449594, AA092078, AA668807, AW168420, AA502858, AI912638, AA536016, AI751216, AI470437, AA303007, AI559251, AW380254, AW055226, AL119691, AA083379, AA326372, AW189113, AA487567, AW103509, N40815, AW103758, D80247, T11417, AA188670, D58283, AW117951, AI124610, AI817976, AA220943, AI674174, D50979, N73855, AA809122, AA502860, D59474, AA446544, AI472222, C16955, D80014, AA572773, AA203135, AA181823, R95139, AI932599, AA312559, AL038072, AA428545, AW148792, AA828781, AA828758, AA826134, AA828771, AA828802, F01109, AI309375, AA297098, AA853836, F32808, W05405, AA503258, AA515753, AA302973, AA984258, AL044904, AI254913, AA598551, AI357924, AW275425, H67854, AA706480, AA657459, AA828227, AL135743, T08298, AA953609, AI969436, AA587517, AI809745, AA655010, AL038705, AW271235, AA167284, AI025864,</p>
HNGMA49	4693	860244	1 - 324	15 - 338	<p>AW069159, AA525760, AW020321, D80522, AA468131, AA468022, AI866160, AA714110, N55508, AA666332, AI828733, W03286, AW327868, D80043, AW277171, AL038799, D80188, AW401408, D80251, AL120959, AI561097, D80366, D80253, AI470431, AW089101, AA846952, AA449594, AA092078, AA668807, AW168420, AA502858, AI912638, AA536016, AI751216, AI470437, AA303007, AI559251, AW380254, AW055226, AL119691, AA083379, AA326372, AW189113, AA487567, AW103509, N40815, AW103758, D80247, T11417, AA188670, D58283, AW117951, AI124610, AI817976, AA220943, AI674174, D50979, N73855, AA809122, AA502860, D59474, AA446544, AI472222, C16955, D80014, AA572773, AA203135, AA181823, R95139, AI932599, AA312559, AL038072, AA428545, AW148792, AA828781, AA828758, AA826134, AA828771, AA828802, F01109, AI309375, AA297098, AA853836, F32808, W05405, AA503258, AA515753, AA302973, AA984258, AL044904, AI254913, AA598551, AI357924, AW275425, H67854, AA706480, AA657459, AA828227, AL135743, T08298, AA953609, AI969436, AA587517, AI809745, AA655010, AL038705, AW271235, AA167284, AI025864,</p>

HNGBMB26	4694	860166	1 - 305	15 - 319	AI560085, AI084348, D57483, AA584667, AI818737, F13647, AI122618, D51799, C14389, AW043636, AI589461, AI589230, AA610373, AA525926, AI027555, AA769402, AI792957, AI800168, AI436601, D80269, H67866, AA084721, AA745475, D80439, D58246, D81030, D59889, AC004695, AC006582, AC004998, AF200465, AC005519, AC002565, Z82901, AL096803, AL049697, AP000967, AC004126, AC006529, AI109827, U72787, AC006121, AC002350, AC004782, AL031286, AC004686, AL078463, Z95152, AC004662, AC005373, AL031775, AC004035, AC004864, AC005993, AC004525, AC005386, AC002303, AC007283, AC006120, AP000555, AC005104, AC007324, AC007100, AC008101, AL022397, AL135959, AC006006, AC009247, Z84469, AL034417, I56088, AC004019, Z97196, AL035695, AC004815, AC005288, AP000496, AC005230, AC005291, AF196972, AF207550, AL031009, Z69713, AF107045, AL021878, AC007993, AF053356, U78027, AF029750, AC003101, AL080243, AC006203, Z84476, AC007021, AL035246, AL035422, AC004865, AL035045, AP0000048, AC003042, AL031447, AF030453, AP001067, AC004854, AL035555, AL117352, AL096791, AL049646, AC004526, AC003963, AL031777, AL035653, AC003029, Z98050, AC005479, AC007162, AC005180, AC007541, AC006571, AC006387, D83253, AP000298, AC005567, AL031680, AC004910, AC004220, AF064865, AL031667, AL031589, AF222684, AL121603, AD000833, AF141308, M90058, L35930, Z69917, AD000812, AC004755, AC005624, AC006275, AC002389, Z82190, AC006347, AL049549, AC002126, AC006468, AP000504, AP000113, AL034412, AC005166, AL008730, AL121820, AC004806, AL121756, Z97180, AC004056, AL022722, AL031668, AC004701, Z82198, AL079342, AC004594, AL034548, AC022517, AC004957, AP000350, AP000356, AC004816, AC005747, AL135747, AC006287, AF129756, AC009399, AL049835, AC006057, AC008125, AC005632, AC008072, AC004491, AC007370, AL121578, AC005512, AL109627, AC004895, AC005940, AC005829, AC007425, AC007435, AC005212, AL050325, AC004472, AC005158, AC005702, AF039907, and AC007226.
HNGBMB33	4695	773752	1 - 529	15 - 543	
HNGBMC51	4696	860243	1 - 669	15 - 683	R17449, and N87385.
HNGBMD03	4697	923041	1 - 487	15 - 501	
HNGBMD04	4698	927026	1 - 467	15 - 481	
HNGBME93	4699	793483	1 - 528	15 - 542	AA480977, AA805135, AI356458, AI521314, AI797957, AI809163, AI082368, AI672772, AW268815, AA709444, AA625108, AW205440, AI193354, AA810765, AA837382, AA480976, AI743503, and AC008119.
HNGBMF04	4700	860242	1 - 705	15 - 719	AA678970, AI054341, AI792623, AI054090, AI246061, F33126, AA278496, AL135605, AA135988, AI251944, AI135811, AW303098, AA714073, AA657910, AL037430, AA706202, AA515172, AI561210, AI434365, H72943, AI862790, W63553, AL133906, AL133902, AI302350, AA502813, AI636734, AI473549, AA378207, AA862029, AW026867, AA488419, AA527109, AA595504, AA297145, F08866, H24957, AA468975, AI049504, AW392414, AA024443,

					AC006566, AC006484, AL031407, AC006509, AL122020, AC005386, AC006115, AL109952, AC008064, AC006512, AC006026, AL031010, AC007934, AC005914, AC002349, AL024508, AL022165, AL033397, AL035427, AC002299, AL121757, AC007279, AC005284, AL133371, AL096703, AL009051, AL034427, AF152363, AC002551, AC005023, AC004910, AC007363, AC002418, AC007436, AL133448, AC005252, AC004160, AC004386, AC005697, AL031055, AC004125, AC006277, AC002086, AC004682, AC004448, AL022578, AC004106, AC006013, AL022151, AC007686, AF001549, AL008636, AC002511, Z93241, AC007993, AC006840, AC012099, AC006480, AC007671, AL109628, AC007688, AL079304, AP000228, AC005375, AP000140, I34294, AP000088, AC004584, AC004985, AL049776, AC002302, AP000692, AC004551, AC004832, AL109939, AB017602, U95743, AL021879, AC005102, AC005274, AC002432, AC005486, AL121694, L34635, AC005971, Z82176, AC005046, AC004458, AC005255, AC004087, AC005037, AC005903, AC000120, Z97053, AP001053, AL079305, AL132985, AC004891, AC005231, AC004797, Z81364, AC002106, AC006023, AL133241, AC005409, AC007543, U66061, AC006449, AC005237, AC006299, AC007103, AC005736, AL008583, Z82208, AF108083, AC005913, AC005235, AC004617, AF109907, AC004000, AC004263, AL050306, AC002524, Z93017, AC005823, AC005788, AC006960, AL079342, AL022312, AL023580, Z99128, AC008055, AC005081, AL050343, AB020860, AC006390, AC004922, U66532, AL132987, Y11107, AL008637, AP000116, AC004025, AC005192, AC006080, AP000550, AC003969, AC009178, AC006578, AC008018, AC000039, AL023805, AC002433, AC005189, AC000353, AB023054, M15027, AL031846, AL031255, AC005484, AC005067, AC004148, AC007774, and AC005015.
HNGMF11	4701	966114	1 - 147	15 - 161	
HNGMF46	4702	795236	1 - 443	15 - 457	D30932, R14811, F06803, Z44371, H29207, AC006359, AC002504, and AP001172.
HNGMF79	4703	772974	1 - 719	15 - 733	
HNGMF94	4704	966091	1 - 583	15 - 597	
HNGMG06	4705	934318	1 - 380	15 - 394	
HNGMG08	4706	958361	1 - 378	15 - 392	
HNGMH80	4707	775503	1 - 532	15 - 546	AA136477, AL049742, AC006511, AL031295, AL033377, AL031985, AL109963, Z95116, AC006530, AC004963, AL080243, AC004149, AC004106, and AC002565.
HNGMH93	4708	791725	1 - 415	15 - 429	AC004147.
HNGMJ04	4709	923011	1 - 270	15 - 284	
HNGMJ89	4710	786340	1 - 566	15 - 580	
HNGML07	4711	952224	1 - 654	15 - 668	AC002484.
HNGML53	4712	860240	1 - 654	15 - 668	
HNGMM51	4713	860201	1 - 488	15 - 502	AC007787.
HNGMM54	4714	933358	1 - 208	15 - 222	AW239562, and Z83841.

HNGMM87	4715	806036	1 - 468	15 - 482	
HNGMV73	4716	806000	1 - 510	15 - 524	AW021116, AF111168, AC007221, Z98742, AC007649, AC005288, L78833, AL021939, AL121825, AC005484, AC004033, U29895, AC005562, AC005500, U80017, AC006966, AC002455, AC004820, and AC007151.
HNGMW52	4717	860231	1 - 583	15 - 597	
HNGMW92	4718	790852	1 - 616	15 - 630	
HNGMX80	4719	786255	1 - 312	15 - 326	
HNGMX87	4720	835612	1 - 521	15 - 535	W05155, AA195301, AA424985, AA234376, AA372119, AA724177, H72335, AA316629, and AC004126.
HNGMX91	4721	789680	1 - 330	15 - 344	Z69714, and Z72521.
HNGNA23	4722	779201	1 - 122	15 - 136	AA582993.
HNGNB01	4723	915258	1 - 70	15 - 84	
HNGNE65	4724	963425	1 - 566	15 - 580	Z54072.
HNGNF40	4725	861967	1 - 676	15 - 690	AL022241.
HNGNG37	4726	847818	1 - 561	15 - 575	AA579385.
HNGNH03	4727	922831	1 - 566	15 - 580	T07903, AL521042, AA135761, AA172103, AA484892, AA608421, AI445699, AL036536, F02264, AA768179, F04185, AA676592, AA846014, AI370470, AA610644, AA613761, H88641, AI205181, AA741403, AI298079, AA558366, AA664126, AA229422, R99076, N78600, AA552724, AA740571, AA297006, AA491767, AW151761, AI702049, AI758424, AA297195, AI002952, M77908, U91326, AC002544, Z83840, Z82208, AL079295, AC005488, AL035086, AL035457, AL020997, AC007240, AL049830, AC007371, AC007227, AC007421, AC004583, AC005520, AC003043, AC005519, AC020663, AC006014, AC006468, AC007308, AC005722, AL049776, AC006387, AC007993, AC004983, AL031848, AC002470, AP000008, AC006241, AL031291, AC005940, AC009516, AC004975, Z83826, AC003688, AL049872, AC004134, AF111168, AC004131, AC006948, AC005377, AL050318, AC006064, AC003665, AC004832, AC002553, AC005274, AC016025, AL096701, AL080243, AC007934, AC005859, AC007537, U91323, AC005014, AL132712, AL022323, AC007226, AP000553, AC002996, AP000569, AC003029, AC005971, U95743, AC002367, AC006088, AC005049, AC000134, AC004883, AL031767, AC005409, AL050348, Z99716, AC005031, AB023050, AC004222, U62293, AL121655, AC002350, AC004185, AL031659, AC018633, AL022721, AC006160, AC005529, AC006077, AL008635, U80017, AC005914, AC007666, U85195, AC006211, AC005215, AC002059, AC006285, AC005057, AC004408, AC005822, AB014077, Z85986, AL132777, AC004854, AL121652, AC007566, Z98048, AC004526, AF196969, AC004895, AC005996, AC008044, AC003101, Z98742, AC006540, AC007774, AE000658, AC006138, AL008718, AL109758, AL078476, AC005620, AL121923, AC004531, AL049760, AC007546, AL022320, AL049694, AC005512, AF111169, AL031680, AL049540, AC005041, AL080160, AL020993, AL132718, AL034429, AP000114, AL096791, AC008372, AC003109, AC005479, AC004209,

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HNGNI04	4728	926985	1 - 480	15 - 494	AC000404.
HNGNI52	4729	781913	1 - 566	15 - 580	
HNGNI75	4730	860168	1 - 512	15 - 526	
HNGNI94	4731	893899	1 - 357	15 - 371	AC005356.
HNGNM24	4732	841902	1 - 300	15 - 314	AA302963, AA559290, AA491814, AI754955, AI264743, AI358343, AA747276, AA682912, AW088202, AI284640, AA747480, AA804379, AI610159, F36273, R91994, AI580652, AA074130, AI801600, AW193432, AA708678, F23279, AI079812, AI053672, AI653886, AW303876, AI569086, F28576, AI749284, AI499938, AW247819, AI902694, AI049722, AI679045, AA515051, AI431303, AL046409, F32894, AI312149, F18974, AI281881, AA649642, AW238016, AW080134, T08914, F25276, AW236342, AL119691, AI471481, AI929531, AA306732, AL041412, AI254615, AI287964, AI688846, AA664535, AA503258, T53607, AA947547, AW273218, AI301700, AW419262, AA934680, AA714453, T40338, AA664407, AW029038, AL047643, AW301350, AW303196, AW193265, AI299050, AW274349, AI334443, AI358571, AI375710, AI357551, AI709365, AA747472, AI286356, AI252554, AA229785, AI350211, AA745582, AA977743, H64777, AA350859, AA663306, AW440976, W07122, AI291124, AW024008, AA744220, AA469451, AL041706, AI801591, AI761471, AA492132, AI339850, AI473943, AI567674, AI962050, AA252763, AA603445, H64560, AI446464, AW166815, AI446601, AI110770, AA533725, AW276827, AI079910, AA515435, AI291268, AI270248, AI287528, AA654968, AW162049, AW250970, AW062724, AI133164, AI537030, AW131034, AW104748, AW088058, AW023389, AI648558, AA441788, AI303008, AI452599, AL043721, AI289067, AA614069, AI184226, AA810318, T56067, AI937850, AI251002, AI567391, AA100599, AA501614, AI298710, AA557879, AI625244, AA557686, AA826303, AI499134, AL041690, AA371567, AA526339, AA659083, AW021747, AI367975, AA488395, AA578918, AI919029, AW440633, AI133636, AW406659, AI887483, AA133986, AA713815, F28776, AI469624, T07451, AI610920, F19012, AW339568, AI246796, AA483068, AL135643, AI624698, AW276435, AI061296, AW261871, AI687962, AW173651, AA878140, AA525190, AI287651, AI017024, AA975645, AI904894, AI379719, AA491762, AI568678, AI434695, AA584489, AA702023, AI143242, AI471543, AI205126, AI674873, AA085023, AA658093, AI281697, AA099892, AA152463, AA633936, AI423941, AI282832, AA225155, N25296, AI539563, AW440836, AA828704, AI890923, AW265385, AI469003, AI537955, AI917271,

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HNGNO03	4733	860155	1 - 518	15 - 532	
HNGNR04	4734	926870	1 - 599	15 - 613	
HNGNS10	4735	963470	1 - 719	15 - 733	
HNGNS58	4736	788971	1 - 306	15 - 320	

HNGNS90	4737	787388	1 - 453	15 - 467	<p> AI904944, AI799421, AI475294, N22501, AA827383, AA126221, AI520925, AL039309, H43183, AA524846, AI871691, AI671077, AA774119, AI446623, AW270429, AW270351, F23268, H59856, AA084320, AW129188, R31264, R66407, AA218684, AL138252, AI805699, N71579, AA831801, H05066, AA171400, H24331, AW338376, AA230221, AI890297, AI819391, H23238, AA832016, AA577719, AA662431, R31260, T92237, H80621, AI683426, AI859744, F07564, AA228442, AA653291, AA368329, AW238495, AW019964, AI453160, AI564294, AA633197, AA632765, AI798242, AI471467, AA595656, AW265149, AA678616, H59611, AA610255, AL048002, AA831997, AA508882, H58393, H59651, AW439724, AA609826, AA558404, AL138065, AW151761, AA767257, AA579399, AI668566, N55515, AA434346, AW408767, AA628740, H15241, AA351808, AA569220, AW007424, AA664248, AI758858, F23221, AI889426, F04838, AI537800, AI860535, AI755057, AA454504, AA741301, T73016, AA664924, AA313078, H64715, AA578394, AW005974, W96522, AI821659, AI879951, AI246061, AI624379, AI927261, AA807704, AI469468, AA580572, AI275989, AI627917, AL079303, Z92542, AC005800, AC002312, AL133241, AC002433, AC008015, AL008638, AL031681, AC004549, AC006465, AC006959, AC002487, AC008928, AL049553, AC002375, AC007559, AC005608, AC006312, AL049694, AL121825, AC004738, Z74021, AF190465, AC004241, AC004616, AP000953, AC007130, AC005316, AC005317, AC002310, AC002301, AC005535, AC007226, AC007225, AC004653, AC006388, AL031588, AC006441, AL049569, AL049761, AP000952, AL121603, AC005082, AC007686, AC005740, AC004749, AC004231, AC012099, AL035603, AL023807, AC004650, AP000098, AC004448, U47654, AC005480, AC006344, AC004685, AC008080, Z95152, AC005067, U43572, A51133, A76958, M84472, AC000024, D87011, U95090, U34879, U82668, AC005696, AL022238, AC007401, AC005355, AC005365, AL049814, Z84719, Z97056, AL031729, AL080317, AL033304, AC006455, AC006039, AL135744, AL109628, AC002559, AC005017, Z98304, AL022237, AC006263, AC006966, AL023283, AC006208, AC004686, AL031587, AL133249, AC005189, AC002316, U62292, AC006254, AC004593, D86995, AL031728, AL132987, Z81369, Z68162, AC004185, AC006047, AC005775, AC003104, AP000694, AP000692, AC004797, AL035696, AC004953, AC009542, AC007263, AC009330, AC006065, AF109907, AC006130, AC004583, AL049565, AL109984, AC005378, AC004253, AC002094, AC006350, AF111170, AL035455, U96629, AL022165, AL022069, Z82244, AC004596, AC005773, AL031281, AL117694, AC004887, L44140, Z99716, AC004112, Z99943, AC004212, M22970, AF113129, AC003982, AC004706, AC007032, AL031848, AL023803, AC005206, AC005667, AL031659, AC003982, AC002470, AC004882, U89387, AC007277, AD000812, AC007684, AC005015, AL022329, AC002470, AC004706, AC007032, AL031848, AL023803, AC005565, AC006162, AL035398, AC002126, AC012330, AC007708, AL034379, AC004999, Z95115, AC009288, AC005030, AC008132, AL117258, AC007325, AC005598, AC007981, </p>
HNGNV80	4738	908167	1 - 440	15 - 454	
HNGNW04	4739	860199	1 - 439	15 - 453	

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HNGNW85	4740	783747	1 - 447	15 - 461			Z83846.
HNGNX37	4741	806018	1 - 683	15 - 697			AC004549.
HNGNX65	4742	806042	1 - 706	15 - 720			AC007376.
HNGNZ01	4743	860158	1 - 507	15 - 521			AA853836, AL046225, AL045756, AL049569, AB023050, AP000511, AL031681, AC006946, AC004216, AC009501, AC002117, AL022165, AC006011, AC006057, AC005237, AC005179, AC004887, AC005102, AC005520, Z83846, AC004491, AP000350, U95090, AC004967, AC004617, AC005488, AC005037, AC006167, AC007193, AL033524, AC005082, AC003684, AC007021, AP000512, AC004832, AF064858, AF030453, AC005088, AP000065, AL049869, AL049843, and AC004408.
HNGNZ38	4744	790926	1 - 562	15 - 576			AC000025, AC005527, AC002991, AC005529, X89398, and AC007637.
HNGNZ91	4745	839887	1 - 508	15 - 522			AA923791.
HNGOA11	4746	966082	1 - 512	15 - 526			
HNGOA82	4747	779154	1 - 435	15 - 449			
HNGOB95	4748	791700	1 - 502	15 - 516			
HNGOD68	4749	790805	1 - 288	15 - 302			
HNGOE64	4750	860143	1 - 551	15 - 565			
HNGOF50	4751	796548	1 - 501	15 - 515			
HNGOF84	4752	782188	1 - 320	15 - 334			
HNGOF85	4753	783717	1 - 792	15 - 806			
HNGOG49	4754	971178	1 - 667	15 - 681			
HNGOH42	4755	958943	1 - 506	15 - 520			U73641.
HNGOI86	4756	806013	1 - 639	15 - 653			
HNGOI13	4757	921433	1 - 325	15 - 339			
HNGOI64	4758	860193	1 - 473	15 - 487			D80134, D80164, T03269, D59467, C15076, D81030, AW178893, D58283, D59859, D80022, C14331, D80166, D80195, D80193, D59927, D51423, D59619, D80210, D51799, D80391, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AW352117, D80269, D80212, D80366, D80196, D80188, AW177440, D80219, AW179328, AA305409, D80045, D80038, D57483, C14429, D50979, D50995, D59889, AW378532, D80024, D59610, C14389, C14014, AW178775, D51060, AI905856, AW360811, AW375405, AW178762, AW352158, AW377671, D58253, AW177501, AW177511, D51022, D80132, AW179332, AW366296, AW360817,

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HNGOK59	4759	789689	1 - 244	15 - 258	AC006274.
HNGOK86	4760	784813	1 - 703	15 - 717	
HNGOL14	4761	860185	1 - 342	15 - 356	AW169469, AI648558, AA565844, AA491697, F32710, AA917906, N71340, N71390, AA584151, AA993165, H91358, AI653783, AA487995, AW193500, W24602, AW173443, AI925559, AA598617, AA487884, AL040948, W38468, AA479033, AA742775, R59868, T50568, AA721561, AA148656, T50436, AA361244, AA402102, AA922633, AA687542, AA229443, AI635819, AA424280, AI150131, AI914151, H80203, AA077646, T52997, AL048002, AI863176, AA649660, T86151, AL047480, T16065, AI557342, AI564215, AA348422, AI497727, W44607, N55012, R17793, AL138242, AI274006, AA470958, AI921692, AI744381, AI567831, AI445768, AA363150, AA586553, D25667, AA374525, AI889648, AI613487, AI336206, AA427747, AA679512, AI689135, AA010672, T61362, AA837739, AA493852, AA568314, AA491545, W79083, AA507990, AI912505, AI188963, AA078384, R30966, AI628482, AA984829, AW029626, AI888050, H73306, M77894, AI538433, R68503, AA632493, AA632484, AA384064, AA837796, AI885488, AA713534, AW236277, AA650348, AA845333, AA524504, H47461, AI754286, W45073, AI215784, H05449, AA526099, AI572680, R81455, AA632994, AP000558, AL035420, AC005183, AC009516, AC006582, AL079342, AC006031, AL079334, AC006487, Z93096, AC003025, AF139813, AP000356, AC006536, AC004228, AC005158, AC000387, AC004622, AL096791, AL035462, AL049569, AC000066, Z99128, AP000855, AC000120, AJ010770, AC000379, AL031276, AC002312, AC006042, Z68870, AL031589, AL009181, AL023284, Z97183, AL049694, AL035086, AP000317, AP000051, AP000119, AP000166, AJ006952, AC007263, AL080286, AC005837, AL132985, Z86090, AL096774, AC004134, AC005913, AC003071, AC005972, AC005578, AC000085, AC003693, AL121754, AJ006345, AC004701, AL109963, AC005562, AC002044, AL049856, AL035417, AL031670, AC005043,

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HNGO022	4762	953888	1 - 143	15 - 157	AA631933, AI859906, AL049694, AC004974, AC007358, AL031680, AF178030, AC004851, AP000696, AP000697, AC007746, AC010197, and AC005876.
HNGOP04	4763	926972	1 - 411	15 - 425	AA424261, AA868202, AA639008, and AA721512.
HNGOPI0	4764	963483	1 - 438	15 - 452	AW148507, AA837087, AA126519, AW410354, AA664942, AA402129, AI537772, AA633762, AI341571, H25921, AA890425, AI096442, AW088581, R97336, AF034194, AF037630, AW027660, AW177790, AA380354, H95302, AA455483, AI623764, AA730422, AA070345, AW081303, AA324242, AA137013, AA551181, AA601356, AL021940, AL022396, AC003070, Z92542, AC005512, AP000193, AC005180, AP000117, L35667, AC004148, AC005483, AC007671, U85195, AC005181, AE000658, AC005520, Z97876, AC012384, AL117338, AC005513, AF135187, AC003104, AF129756, AL034549, Z98884, AC004453, AC005409, AC006045, AC008273, AC005736, AC005612, U73638, AC007193, AL022399, AL031848, Y14768, AC005751, AF172277, U51244, AC005042, AC005833, Z93017, U07562, AC007055, AC004685, AC004797, AL022238, U50537, AL023096, AC004874, AC003009, Z15025, AB020865, AC004976, AC005037, AC006441, AC005305, AL049546, AC006578, AL031284, AL022312, AC002468, AL031289, AL035078, AC005668, U45984, AC006199, AL031432, AP000331, AP000501, AF030453, AC004656, AC004694, AL022315, M58509, AC004799,

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HNGOV03	4766	922963	1 - 398	15 - 412	AC005844.
HNGOV65	4767	921416	1 - 284	15 - 298	
HNGOW13	4768	926929	1 - 408	15 - 422	
HNGOY01	4769	915210	1 - 680	15 - 694	
HNGOY10	4770	915012	1 - 372	15 - 386	
HNGOZ17	4771	880777	1 - 234	15 - 248	AL031654.
HNGPH12	4772	969683	1 - 421	15 - 435	
HNGPI08	4773	947384	1 - 681	15 - 695	AA830964, R60323, AI536908, R73479, AA470779, AA113170, AW062702, AW029617, AC004953, AF024534, AC005086, and AL031588.
HNGPJ23	4774	855983	1 - 697	15 - 711	AC007157.
HNGPJ51	4775	805997	1 - 594	15 - 608	
HNGPL91	4776	959740	1 - 496	15 - 510	
HNGPN01	4777	913782	1 - 531	15 - 545	
HNGPN46	4778	954997	1 - 576	15 - 590	
HNGPP61	4779	860145	1 - 500	15 - 514	AL096791.
HNGPR03	4780	949269	1 - 175	15 - 189	
HNGPS10	4781	963469	1 - 590	15 - 604	AA878407, AA525331, AW381823, T69571, AI912401, AL134167, AA904211, AA657910, AW381816, AW054936, AI671077, AA318492, AA557984, AW392414, AA318209, R70883, H29914, R70884, AA658934, AI923052, R93919, AA279919, AA122307, H43183, AA772704, H67064, AA445908, AI889579, AI198718, AL044339, AA523695, F35902, AI280266, R69527, AA584525, AA070330, AA805573, AA504951, H43771, AA827904, AA804334, AI914713,

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HNHAB29	4782	860141	1 - 132	15 - 146	Z98886.
HNHAB93	4783	527921	1 - 136	15 - 150	
HNHAF77	4784	527971	1 - 123	15 - 137	
HNHAG50	4785	527815	1 - 217	15 - 231	
HNHAG51	4786	725898	1 - 222	15 - 236	
HNHAG64	4787	527809	1 - 234	15 - 248	AA974734, AW072398, Z39952, F03162, and AL137476.
HNHAH38	4788	860118	1 - 411	15 - 425	
HNHAH84	4789	527806	1 - 274	15 - 288	
HNHAI11	4790	967668	1 - 479	15 - 493	AA834563, AA707629, and AA465337.

HNHAI15	4791	860128	1 - 115	15 - 129	AA835691, AA261783, and AI660058. AI866487, AL038971, AI631119, AW167374, AI445088, AA904211, AA613624, AI469599, AW301483, AA503019, AA173334, AI017251, AA578832, AA832145, AI719142, AA236867, AI857836, AI281818, AW167330, AA630535, AI362442, AW021583, AF050154, AJ249921, AC005015, Z84466, AL035413, AC005529, AP000692, AL096701, AC005821, AC005527, AL121653, U91326, AC007225, Z98946, AC005225, AC006088, AL035587, AL109984, AC006026, AC006538, AC005933, AC004841, AC007011, AP000694, AC006449, AC007308, AL133246, AC005280, AC005755, Z93023, Z85987, AC007216, AC005089, AL080243, AC004929, AC007193, AC006285, AL049569, AL021154, Z93017, AL024498, AC007386, AP000501, AL031311, AL121603, AC007298, AC002470, AL022330, AP000557, AC006441, U91321, AP000510, Z86090, AC006312, AC007664, AC005207, AC007277, AL020993, AC006241, AL035071, AC007546, AC004019, AC004491, AC009516, AC005520, AF001549, AC004032, AC004216, U95739, AC004686, AC004814, AC005300, AC005291, AC005907, Z83844, AL133163, AP000116, AC004858, AF111168, AC007055, AC002350, AC006275, AL035659, AP000555, AC005011, AC004890, AC002126, AC004685, AC005779, AL136295, AC002352, AL031295, AC002398, AL022336, U85195, AC007707, AL109798, Z82214, AC005899, AP000696, AC007199, AC005288, AE000658, AC007537, AL049539, AP000065, AC005088, AC005702, AC002302, AL109628, AL034417, AL049766, AC007731, AL024508, AC006277, AP000553, AL022165, Z99716, AC005914, AC005500, AF053356, AC004534, AC007052, AC006211, L78810, AF038458, AL139054, Y14768, AC005736, AC005618, AC007114, AL133448, AC004876, AL049757, AC004084, AP001053, AC003070, AC004033, AC004000, AF109907, AC006965, AC004796, AC005484, AL021155, AP000505, AL035455, AC000379, AC006544, Z85986, AC004134, AC004851, AC002312, AC005412, AL035422, U96629, AC007358, AC004963, AC005730, AF129756, AC002404, AC005071, AC005940, AC007666, AC005081, AC000025, AF134726, AL049872, U91323, AL022326, AC005519, AC004832, AC004099, Z97054, AL109758, Z93244, AC005049, AF196969, AL031985, Z82203, AP000030, AC002558, AF196779, AL049709, AC005082, AL022311, AL121658, AC004386, AL034423, AP000512, AC004922, AC006251, AL117258, AL031584, AC004865, AL031685, AC006581, AL008582, AC005409, AC005037, AC004253, AL132712, AC002544, AC002115, AL050307, AL035086, AL022313, AC007030, AC004805, AL034548, AC005480, AL035683, AP000251, AC006064, AL031662, AC005057, AC003101, AC005531, AL022320, AC005399, AC007919, AL035400, AC005619, AC008044, AC005086, AL024507, AC004883, AL117694, Z82244, AC002045, AC005972, AF107885, AC007688, AC005488, AC002301, AL110502,
HNHAI68	4792	527572	1 - 151	15 - 165	
HNHAI59	4793	703576	1 - 404	15 - 418	
HNHAK83	4794	574391	1 - 307	15 - 321	
HNHAP79	4795	574384	1 - 125	15 - 139	
HNHAW75	4796	515480	1 - 637	15 - 651	

						AL031281, Z84480, AC005694, AP000117, and Z94801.
HNHBC30	4797	693318	1 - 250	15 - 264		AA594550.
HNHBE19	4798	724404	1 - 349	15 - 363		
HNHBE62	4799	574387	1 - 308	15 - 322		
HNHBT72	4800	577334	1 - 386	15 - 400		AC004520.
HNHKB22	4801	574305	1 - 259	15 - 273		AA758873, AC004770, and AL117582.
HNHKB59	4802	959771	1 - 292	15 - 306		
HNHKB80	4803	721688	1 - 227	15 - 241		
HNHBM63	4804	574310	1 - 290	15 - 304		
HNHBM66	4805	860119	1 - 361	15 - 375		
HNHBO20	4806	793416	1 - 652	15 - 666		Z65368.
HNHBO71	4807	868059	1 - 310	15 - 324		
HNHBO83	4808	526746	1 - 223	15 - 237		
HNHBQ53	4809	574090	1 - 162	15 - 176		AC003954.
HNHBS07	4810	953850	1 - 411	15 - 425		
HNHBS23	4811	574048	1 - 314	15 - 328		
HNHBS38	4812	925693	1 - 956	15 - 970		
HNHBU20	4813	669866	1 - 243	15 - 257		
HNHBU21	4814	574030	1 - 350	15 - 364		
HNHBU37	4815	574139	1 - 326	15 - 340		
HNHBU79	4816	597123	1 - 255	15 - 269		AC005067.
HNHBU82	4817	577193	1 - 382	15 - 396		AW005603, AA504818, AW021007, AA632556, AI054090, AI246061, AA135988, AA714073, AI678476, AA244181, AI591134, AW079667, AI343669, AI309121, T55707, AI445373, T07225, AA878407, N66927, N69399, AI049701, AA493447, AA632765, AI471467, AI185394, F18761, AA135811, AI431513, AI439676, H79586, AI869786, AA657910, AI300413, AI342786, AA995373, AI869797, AA713705, AI284543, AA599749, AI762302, R83068, AI254770, AA297961, AI251944, AI251034, AI251203, AI251284, AI800706, AA613162, H93717, AI635196, H42893, F31811, AW007424, AI884861, AI250552, AW303098, H43183, AA527109, AA845825, AA678616, AI223968, N52293, AA610255, AA804729, AI049504, AI302277, AI561210, AA569734, AI499941, AI002762, AA325250, AI915081, AI564301, AA376896, AI251024, AI143653, AI520967, AI249853, AA595656, R71796, AI628859, AA744048, AW019964, AA358337, AI137946, AI376197, AI567941, AA778962, AA226770, AA083681, AA594227, H86579, AA632839, AA083839, AA053463, AA568425, AI609574, AA565911, AA744428, AI539822, AI300818, AI310992, AA856866, H52472, AI653783, F08214, W78056, R80563, AA569597, AI733647, AI733662, AA743976, R35259, AI453160, AA449979, Z96216, L78442, AL078621, AC005015, AL022311, AC004887, AC006516, AC008101, AC008079,

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HNHBU91	4818	765815	1 - 220	15 - 234
HNHBU92	4819	753550	1 - 320	15 - 334
HNHBU93	4820	757745	1 - 404	15 - 418
HNHBU95	4821	574026	1 - 236	15 - 250
HNHBY06	4822	936012	1 - 356	15 - 370
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HNHBY45	4823	774280	1 - 377	15 - 391	AC006262, AF165926, AC004821, and AL022336.
HNHBY60	4824	964712	1 - 218	15 - 232	AL031654.
HNHBY83	4825	694401	1 - 478	15 - 492	AC004258.
HNHBZ03	4826	924873	1 - 387	15 - 401	
HNHCC42	4827	577343	1 - 345	15 - 359	
HNHCD63	4828	574309	1 - 384	15 - 398	AC007758.
HNHCE68	4829	574028	1 - 425	15 - 439	
HNHCJ25	4830	679154	1 - 407	15 - 421	
HNHCJ35	4831	860112	1 - 409	15 - 423	
HNHCJ39	4832	574084	1 - 117	15 - 131	AC005390.
HNHCJ68	4833	753558	1 - 237	15 - 251	
HNHCJ71	4834	760565	1 - 225	15 - 239	
HNHCJ80	4835	786033	1 - 485	15 - 499	AA135377, AI016828, AA572714, Z77249, AC005899, AL022336, Z96074, AC004841, AF111168, AL049780, AL035249, AF048728, AL080317, AC004605, AC009721, AC005033, AC005067, AL049776, AC004797, AC006544, AF205588, AP000300, AC008372, AC009509, AL031733, AP000045, AP000113, AC004593, AL031276, AC010205, AC005409, AC005619, AL139054, AL034423, AC005015, AC016831, AL035415, AC005081, AL031577, AC004659, AC004589, AL022400, AC004983, AB022785, AP000065, AC004925, AC005740, AC004895, AF017104, AC006063, AL009181, AC004923, AC005355, AL022326, AP000512, AC004707, AC001226, AC003663, Z98200, AC005058, AL049872, L78833, and AL096701.
HNHCL20	4836	780527	1 - 420	15 - 434	AA362218.
HNHCL38	4837	574082	1 - 211	15 - 225	
HNHCL47	4838	719476	1 - 264	15 - 278	
HNHCM80	4839	573010	1 - 279	15 - 293	
HNHCN70	4840	577186	1 - 187	15 - 201	AC009405.
HNHCO27	4841	574337	1 - 205	15 - 219	
HNHCO48	4842	860641	1 - 425	15 - 439	
HNHCO64	4843	574147	1 - 392	15 - 406	AC007559.
HNHCP18	4844	666844	1 - 196	15 - 210	AP000350.
HNHCP22	4845	934307	1 - 573	15 - 587	
HNHCP37	4846	866950	1 - 361	15 - 375	AW419246, and AW277087.
HNHCP78	4847	506696	1 - 312	15 - 326	
HNHCP88	4848	574341	1 - 228	15 - 242	
HNHCQ70	4849	757410	1 - 431	15 - 445	R69234, H70121, and AC005071.
HNHCU18	4850	574394	1 - 118	15 - 132	

HNHCU42	4851	850918	1 - 664	15 - 678	AI539360, AC003007, and AC005632.
HNHCU57	4852	735005	1 - 226	15 - 240	
HNHCV72	4853	766213	1 - 387	15 - 401	R38821, and AF070579.
HNHCZ07	4854	953881	1 - 321	15 - 335	
HNHCZ23	4855	574325	1 - 318	15 - 332	AI366208, AC002041, AC002038, AC006352, and AJ239321.
HNHDA07	4856	855988	1 - 443	15 - 457	
HNHDA79	4857	574350	1 - 140	15 - 154	
HNHDA88	4858	574150	1 - 147	15 - 161	
HNHDB11	4859	574323	1 - 488	15 - 502	
HNHDB23	4860	676290	1 - 488	15 - 502	
HNHDB46	4861	574329	1 - 488	15 - 502	
HNHDB93	4862	800661	1 - 60	15 - 74	
HNHDC26	4863	574304	1 - 341	15 - 355	
HNHDC47	4864	708705	1 - 329	15 - 343	
HNHDC83	4865	577339	1 - 421	15 - 435	
HNHDC95	4866	734794	1 - 196	15 - 210	
HNHDE38	4867	709277	1 - 334	15 - 348	R67093, AW316599, AL121287, AI313157, AA807556, AA188940, R91931, AA491440, AI453160, AI564294, AA683069, AA632765, AW081324, AI471467, AL041895, AA614595, AA564682, AA469441, AA314338, AW007424, AA366847, AW028834, AI891075, AW058223, AJ011930, AJ003147, AL022724, AL096761, AC002477, AL031592, AL049539, AC002357, AL024498, AC005599, AC005082, Z96776, AC003108, AL096766, Z84469, AL020997, AP000555, AL031311, AC002418, AC007993, Z83843, AC004386, AC005778, AL109952, AC004770, AC005015, AC002472, AC005625, AC012039, AC006293, AB003151, AP000688, AC005245, AC005777, AL034582, AP000502, AC002394, AF019413, AL049557, AL133448, AF134726, Z69721, AC000069, AC002314, AC000095, AC007326, AC005726, AL133445, AC006449, AC004031, AC006071, AC005998, AC005484, AC005005, AC005288, AC005514, Z82243, AJ239325, AC004834, AL008583, AC003982, AL121603, AC004882, AC005081, AC005529, AC004131, AB017602, AC004883, and AC000025.
HNHDF31	4868	968249	1 - 223	15 - 237	AC006560.
HNHDF48	4869	574385	1 - 200	15 - 214	
HNHDF06	4870	936046	1 - 327	15 - 341	
HNHDF60	4871	860101	1 - 314	15 - 328	
HNHDL62	4872	577701	1 - 213	15 - 227	
HNHDL90	4873	789082	1 - 466	15 - 480	
HNHDL94	4874	773592	1 - 312	15 - 326	
HNHDM03	4875	924713	1 - 389	15 - 403	

HNHDM40	4876	711352	1 - 341	15 - 355	AC007052.
HNHDM50	4877	724550	1 - 539	15 - 553	H41308, N94134, H37815, H51061, H69577, U47924, AL049872, AP000121, AF111169, AC005332, U63721, AL031681, AC005839, AP000321, AL022165, AC005280, AC005412, AC002310, AC005488, AC005736, AC004895, AC005015, AC005180, AF001549, AC006120, AC006965, AC004983, M15958, AC007151, AC004797, AC005081, Z99716, AC002470, AL133245, AP000167, AP000052, Z93241, AL023553, AC004998, AC004686, AC007312, AC006088, Z93017, AL049776, AC004815, AC004923, AP000113, AC006211, AC003109, AC003108, AC004596, AL139054, and AC002519.
HNHDM74	4878	506621	1 - 423	15 - 437	
HNHDM27	4879	573388	1 - 188	15 - 202	
HNHDM79	4880	735007	1 - 304	15 - 318	
HNHDP04	4881	859988	1 - 738	15 - 752	AI143917, E04378, D10017, AF023669, AB032964, E04379, and E04380.
HNHDP29	4882	746093	1 - 340	15 - 354	
HNHDQ11	4883	967334	1 - 482	15 - 496	
HNHDQ17	4884	573328	1 - 347	15 - 361	
HNHDQ35	4885	707334	1 - 325	15 - 339	
HNHDQ39	4886	704560	1 - 147	15 - 161	
HNHDQ56	4887	577256	1 - 494	15 - 508	R53975, AC005226, AC004690, AC004814, and AL031132.
HNHDQ65	4888	573357	1 - 337	15 - 351	
HNHDQ71	4889	496246	1 - 570	15 - 584	
HNHDQ93	4890	923817	1 - 416	15 - 430	
HNHDR10	4891	968082	1 - 367	15 - 381	AI053568, AA570255, AW069227, AW161879, T05834, AC007276, AP000355, AP000356, AL049795, U91326, AC005071, AL024507, AL035447, AC005081, U91323, AC007637, AL022476, AC004167, AC004491, AL031311, AC002563, AC005480, Z75407, AL008582, AC002425, AC004821, U91318, AC004099, AC005089, AF111168, AL024498, AC002073, AC005500, AC007192, AC002094, AP000512, U78027, AC005412, AC000379, AC005067, AC005212, AC007216, AL022165, AL021918, AL031432, AL035249, AC005736, AC007387, AC005520, AC007842, AC007421, AC007225, AL133163, AL132712, AL031587, AC002472, AC005971, AC005193, AB003151, AC004765, AC005015, AF030453, AC008018, AC005821, AL031255, AC005696, AL049589, AC005180, U25956, AC005088, AL133312, AL031680, AC006480, AC004125, AC007664, U95740, AF165926, AC008101, AC005011, U52111, AC005523, AC006449, AC004067, AC005091, AC005189, AC006023, AC005730, AC006581, AC007566, AC006487, AC004143, AL049843, AP000557, AC005094, AC005280, AC005261, AC005274, AC004033, AL050338, AF001550, AC000134, AC005839, AL121603, AF069074, AC002126, AL133243, AP000116, Z98044, AC005488, AL031683, AL031685, AF053356, AL133246, AL022316, AC005338, AC005722, AL031295, AL022318, AC006251, AC004019,

					AC004663, AC006277, AF196779, AL034549, AL008730, AL049776, AC004801, AC004859, D84394, AL049872, AL022311, AP000689, AC002369, AP000113, AP000045, AP000555, AC004882, AP000509, Z93930, AL096703, AL117694, Z95114, AC006130, AC005914, AC004991, AC007279, AC006241, AC009247, AL049539, AL022313, AC004662, AC003109, AC002350, AC005568, AC004815, AC007193, AL096773, AC002470, AC007292, Z83844, AC004983, AL139054, AC004893, AC007308, AC009464, U73479, AC012039, AL023553, AC006441, and AC010170.
HNHDR28	4892	685580	1 - 410	15 - 424	AW086034.
HNHDR71	4893	575480	1 - 451	15 - 465	
HNHDS27	4894	683585	1 - 246	15 - 260	
HNHDS83	4895	573347	1 - 200	15 - 214	
HNHDS88	4896	573349	1 - 334	15 - 348	
HNHDT01	4897	917004	1 - 369	15 - 383	
HNHDT28	4898	887158	1 - 447	15 - 461	AA311373, AA318324, AI623755, AW263181, AI979227, AA423972, AW193871, AL048971, AP000528, AP000529, and AC004527.
HNHDT42	4899	574455	1 - 245	15 - 259	
HNHDT54	4900	728871	1 - 482	15 - 496	
HNHDT83	4901	717796	1 - 428	15 - 442	
HNHDTV50	4902	506622	1 - 275	15 - 289	
HNHDTV84	4903	750262	1 - 372	15 - 386	
HNHDTW78	4904	723189	1 - 271	15 - 285	
HNHDX80	4905	779334	1 - 329	15 - 343	
HNHDX84	4906	615272	1 - 230	15 - 244	
HNHDTY18	4907	573329	1 - 367	15 - 381	
HNHDTY37	4908	582473	1 - 187	15 - 201	AI809475.
HNHDTY45	4909	576776	1 - 320	15 - 334	AA320060, AA581317, AA488419, W96277, AA554958, AA020873, AI923052, AI207534, Z84484, AC004912, AC005015, AC004813, AI009181, AC005914, AL024507, AL022312, AL023876, AL096775, AC002126, AC004408, AC005207, AL132987, AC006450, AC006576, AC004070, AL034423, AP000036, AL050306, AC002412, AP000099, AC006121, AL132796, AC008012, AC008372, AC007563, AC004034, AP000353, AC004890, AC004031, AC004656, AP000466, AP000322, AP000168, AP000053, AP000133, AP000211, Z97989, AC004910, AC007938, AL117355, AL035460, AC006277, AC002077, AC004763, AC005899, AC004585, AP000121, AC003029, AC006581, AC002511, AP000563, and AC002546.
HNHDTY50	4910	924211	1 - 163	15 - 177	
HNHDTY54	4911	945708	1 - 581	15 - 595	
HNHDTY83	4912	795954	1 - 243	15 - 257	AL031274, Z98941, AC010582, and AL121576.

HNHDZ14	4913	506738	1 - 312	15 - 326	AL033525.
HNHDZ26	4914	419716	1 - 418	15 - 432	AW024707.
HNHDZ69	4915	573346	1 - 236	15 - 250	
HNHEA06	4916	835893	1 - 340	15 - 354	
HNHEA21	4917	574868	1 - 229	15 - 243	E04378, and D10017.
HNHEA40	4918	573327	1 - 273	15 - 287	
HNHEA96	4919	796491	1 - 330	15 - 344	AA322484, AA501575, and AA339577.
HNHEB47	4920	573339	1 - 185	15 - 199	
HNHEB88	4921	412655	1 - 128	15 - 142	
HNHEC40	4922	576507	1 - 347	15 - 361	
HNHEC51	4923	577306	1 - 406	15 - 420	
HNHEC96	4924	796463	1 - 356	15 - 370	
HNHED02	4925	920414	1 - 394	15 - 408	
HNHED51	4926	682992	1 - 673	15 - 687	
HNHED82	4927	576541	1 - 410	15 - 424	Z82249.
HNHED83	4928	576540	1 - 317	15 - 331	
HNHEE25	4929	576512	1 - 371	15 - 385	AI636627, AC004916, AC007878, AI008987, AL023799, AL080317, AP000959, AF064866, AC006965, AL096707, AC006441, AL035443, AC004687, AC006948, AL021329, AL022163, AF001905, AC005053, AC006324, AC007748, AC005826, AC007182, AC002476, AC005844, AC008170, AC003983, AC006368, and AF043945.
HNHEE30	4930	576440	1 - 425	15 - 439	
HNHEE38	4931	860073	1 - 227	15 - 241	
HNHEE40	4932	576442	1 - 423	15 - 437	AF130343.
HNHEE49	4933	576820	1 - 396	15 - 410	
HNHEF01	4934	916792	1 - 336	15 - 350	AL031447.
HNHEF73	4935	576419	1 - 261	15 - 275	
HNHEG28	4936	586443	1 - 322	15 - 336	
HNHEG32	4937	576426	1 - 420	15 - 434	
HNHEG49	4938	576415	1 - 372	15 - 386	
HNHEG68	4939	861181	1 - 286	15 - 300	
HNHEG91	4940	506278	1 - 346	15 - 360	
HNHEH04	4941	582732	1 - 329	15 - 343	
HNHEH37	4942	490514	1 - 495	15 - 509	
HNHEH41	4943	578589	1 - 298	15 - 312	AA357626.
HNHEH51	4944	678114	1 - 438	15 - 452	
HNHEH52	4945	860021	1 - 398	15 - 412	N57205, AI312090, AI312784, AC004885, AC004584, AC006511, AC003982, AL021391, and

HNHEH60	4946	576517	1 - 391	15 - 405	AL031003.
HNHEI06	4947	923080	1 - 363	15 - 377	
HNHEI64	4948	576549	1 - 315	15 - 329	
HNHEJ07	4949	953586	1 - 427	15 - 441	AA115161, AL121825, and AP000547.
HNHEJ11	4950	967265	1 - 731	15 - 745	
HNHEJ23	4951	576533	1 - 364	15 - 378	
HNHEJ24	4952	916556	1 - 221	15 - 235	
HNHEJ44	4953	716723	1 - 303	15 - 317	AC006464.
HNHEJ57	4954	576535	1 - 234	15 - 248	
HNHEJ85	4955	964882	1 - 149	15 - 163	
HNHEK01	4956	916790	1 - 452	15 - 466	
HNHEK63	4957	576819	1 - 453	15 - 467	AJ009794.
HNHEK79	4958	954548	1 - 319	15 - 333	
HNHEK83	4959	576420	1 - 325	15 - 339	
HNHEL09	4960	576418	1 - 309	15 - 323	AJ223321.
HNHEL37	4961	713723	1 - 587	15 - 601	AI312582, AI054244, AA491864, AW275432, AI683131, AA715814, AW338651, AI569401, AI278972, AA533054, F30650, AI270646, AA533880, AA526625, AA526326, AI590442, AI620668, AI821805, AI880329, AA552590, AL037632, AL042230, AC005193, AC005049, AL080243, AC005519, U91318, AC004882, AC005829, AC004802, AL031597, AC004675, AF083655, AC004212, AF088219, AC007546, AC002350, AC004150, AC005484, AL035495, AC004983, AC008044, AC004024, AC005212, Y18000, AL078460, AL050307, AC005903, AC007384, AL109753, AC006480, AL021877, AC006544, AC000039, AL021808, AC006014, AC004796, AC002045, AC006241, AC002369, AL031846, AL096791, AL033527, AC005529, AC005768, AC004967, AL022326, AC004662, AL133163, AP000512, AC005046, AL031670, AF031078, AL031432, AC004678, AF111168, AC004993, AC002126, AB023049, Z85986, AC000367, AF030876, AC007226, AC004084, AC004491, Z82203, AC004448, AC007774, Z93023, AC005488, AC003962, AF011920, Z82176, U95090, AC006120, Z97053, AL136504, AC002430, AC005409, AC006538, AC006211, AC006958, AC005088, AC002091, AC007537, AC004777, AL035450, AL031311, AC008134, AF134726, AL049869, AL022165, AC005015, AP000347, AL022320, AC007676, AC005086, AC004019, AL078593, AC005702, AF190465, AL049776, AL049872, AL135960, AJ131016, AC007308, AC006079, AC006115, AC010205, AC004859, AL021391, AP000432, AD000812, AL009181, AL022328, AF207550, AC003029, AC006160, L48038, AL031803, AL117694, AC004841, AL132992, AC002565, AL021394, AF196779, AC005755, AC004913, Z97054, AC004526, AC007057, AL050308, AL050332, AP000556, AF185589, AL133371, AL023807, AC005412, AL109627, AC005235, AC005562,

					AC007192, AC003108, AC007182, AP000501, AC006084, Z68282, AC002312, AL031773, AC006511, AF053356, AC005387, L44140, AC006121, AC005358, AC004813, L78810, AC005095, AL031733, AC007151, AC007225, AC005773, AC005822, AL031685, AC006323, AL020993, AF165926, AC005480, Z81370, AC009363, AC000025, AL031282, AL022302, AC004000, AC000353, AC006344, AF001548, AP000346, AC006111, AC005377, Z98750, AL035588, AL034379, AL022721, AC006033, AC004854, U91326, AL049761, AC005229, AF159056, AC005921, AC005821, AC005922, AC005695, AC005520, AP000065, AL035458, AC000120, AP000356, Z79997, AL049839, AC005209, AC004805, AC006581, AC002314, AC004148, AC007279, AC005527, AL121653, AL034417, AC004929, AC002476, and AC007637.
HNHEL42	4962	859830	1 - 448	15 - 462	
HNHEL44	4963	576423	1 - 254	15 - 268	
HNHEL53	4964	506281	1 - 360	15 - 374	
HNHEL82	4965	576430	1 - 579	15 - 593	
HNHEL94	4966	786930	1 - 410	15 - 424	AA761183, AA806545, AA651905, AA811074, AA836161, AW341564, AW404901, AI393457, AW292488, AI671881, AA741473, AA281261, and AA994866.
HNHEM04	4967	950725	1 - 350	15 - 364	
HNHEM34	4968	860047	1 - 343	15 - 357	
HNHEM35	4969	576424	1 - 339	15 - 353	
HNHEM83	4970	825354	1 - 594	15 - 608	AL040165, T59913, AF109718, AC004916, and AC004987.
HNHEM85	4971	783480	1 - 332	15 - 346	AL031668.
HNHEN02	4972	920420	1 - 420	15 - 434	
HNHEN16	4973	615402	1 - 420	15 - 434	Z82975, and AC007102.
HNHEN56	4974	733521	1 - 432	15 - 446	N25067, AI741934, R93919, AA854983, AA065087, AA159978, and AF196971.
HNHEN66	4975	576544	1 - 432	15 - 446	
HNHEN76	4976	576542	1 - 437	15 - 451	
HNHEO29	4977	576548	1 - 427	15 - 441	
HNHEO43	4978	860046	1 - 690	15 - 704	
HNHEO83	4979	706683	1 - 196	15 - 210	
HNHEO84	4980	859992	1 - 420	15 - 434	T62624, AA018757, AA457771, AL043721, AI198376, AI471572, AW072923, AA482810, R83097, AL133163, AC005971, AC005288, AC006079, AL050309, U96629, AL031311, AC004814, AL022238, AC005899, AC005614, AC005011, AP000215, AC007546, AC004019, AC004150, AC005251, AC004257, AC007666, AC005602, AC005696, AC002544, U91326, AF196779, AL050332, AC004596, AP000350, AC003662, Z95331, D84394, AC005412, AC005034, AC006241, AC005531, AC004895, AL121653, Z82215, AC005703, AC012627, AC006449, AC004253, Z85987, AC007934, AC006312, AL080243, AC005823, Z85986,

							AC006379, Z83844, AC005858, AL049636, AP000555, AC007565, Z21688, AC007011, and AL050333.
HNHEP49	4981	576453	1 - 326	15 - 340			AF109076.
HNHEQ07	4982	953577	1 - 438	15 - 452			
HNHEQ46	4983	576437	1 - 297	15 - 311			
HNHEQ60	4984	576455	1 - 226	15 - 240			
HNHEQ70	4985	577188	1 - 423	15 - 437			
HNHEQ92	4986	576456	1 - 349	15 - 363			AL031290.
HNHEQ94	4987	577303	1 - 236	15 - 250			
HNHER06	4988	918651	1 - 272	15 - 286			AC004036.
HNHER21	4989	496484	1 - 517	15 - 531			
HNHES05	4990	932092	1 - 312	15 - 326			
HNHES06	4991	859833	1 - 278	15 - 292			
HNHES07	4992	953443	1 - 381	15 - 395			
HNHES11	4993	967128	1 - 383	15 - 397			
HNHES23	4994	675946	1 - 475	15 - 489			AA215634, AA825300, AA491266, AW136478, and AA282054.
HNHES35	4995	576497	1 - 387	15 - 401			AW249240, and AC006261.
HNHES56	4996	881504	1 - 381	15 - 395			
HNHES61	4997	973297	1 - 493	15 - 507			AA093346, AL261785, AA714323, AC005498, AP000457, AL049641, AC005064, AL109764, AL049710, AC000119, AL049565, AC005019, AC004454, AL050401, AL049834, U66059, AC004842, AL035695, AC004741, AF101874, AC004908, AL132777, AL133312, AL049778, Z71182, AL135879, AL121790, AC007239, AL023806, AC004948, AL031663, AC004949, Z70227, AC005873, AB020861, AL021451, AC005199, AL031114, U01882, AC007444, and AC005502.
HNHES81	4998	777979	1 - 370	15 - 384			AL011414, AJ011415, X87904, and AB007867.
HNHET11	4999	967127	1 - 388	15 - 402			
HNHET17	5000	576746	1 - 430	15 - 444			
HNHET24	5001	860006	1 - 368	15 - 382			
HNHET25	5002	953410	1 - 373	15 - 387			
HNHET57	5003	577360	1 - 445	15 - 459			T57118, AC004966, AC007544, and AC007253.
HNHEU50	5004	724449	1 - 342	15 - 356			AA758275, H52638, AL445536, AA601208, AA354868, AW151201, AA209436, AL628200, AL628178, AA557911, T41164, T41132, AL745473, AA491361, AA311060, AW103782, AA569053, H40478, F23268, AA708305, AL859742, AL452836, H48734, M62264, AL459798, AC005231, AC005899, D87675, U85195, AC007221, AC006312, AC005049, AC005954, AC005736, AC005529, AL009181, AF134726, AL031589, AC005531, AC006120, AC007993, AL022336, AC016830, AP000255, AL033381, AL139054, AC005971, AP000135, AL024498,

				AC006530, AB017602, AC016027, AP000031, AL031387, AC004509, AL021939, AP000008, AC003962, AL080243, AP000704, AC006125, AC005206, AC006571, AC006121, AC004185, AL109628, AL049776, AC005988, AC007227, AP000117, AC002558, AC007899, AC005667, AL096775, AC005837, AF141309, AC005399, AC007676, Z99716, AF030453, AP000090, U82668, AC004882, Z83822, AC005520, AC005071, AC005829, AF006752, AL133448, AF031076, AC005932, AC005697, AL035659, AC005356, AC003101, AC004841, AC004526, AR036572, U91328, AC007057, AC008126, AC007738, AF196971, AP000044, AP000112, AL022318, AC004686, AP000503, AC004966, AC006088, AL121653, Z84721, AC020663, AL035410, AL021878, Z82184, AC007204, Z83826, AP000502, AP000213, AC007387, AC005245, AF207550, AC002310, Z95115, AC007546, AC006132, AC005914, AL031680, AC007041, AC002302, AC005519, AC005696, AL049553, AF208500, AL049759, AC004967, Z85986, AL096701, AC004552, AE000658, Z68279, AL031666, AC007688, AL022323, AP000228, AC004953, AP000509, AP000511, AL109798, AP000553, AC009516, AC005072, AC004797, AC002477, AC005940, AL096703, AL135960, AF131016, AC003690, AF053356, AC000003, AC007773, AF124523, AF031078, AC007790, AC012627, U95740, Z97054, Z83844, AC005088, AP000050, AP000045, AC002301, AP000140, Z93017, U80017, AF030876, AC004491, AC005775, AC005902, AC007151, AL022721, M89651, AC007276, AL049709, AC006141, AP000088, AC006130, AC016025, AC005600, AC005046, AL133371, AC004655, AC002036, AC004765, AC006157, AP000049, AC004242, AC005067, AC005015, AL049757, AP000356, AL022315, Z93241, AC004941, U07562, AC005747, AC003688, AC007731, AC002504, Z98950, AC003982, AF001549, AC004019, AC004985, AC005500, AP000311, AC005763, Z98051, AJ003147, AC006539, AC006344, AL022238, AC004804, AC006511, AC004477, AC005562, AL031005, AC006388, AB012168, AC004152, AC004851, AC000353, AC003983, and AL031602.	
HNHEU60	5005	576387	1 - 328	15 - 342	
HNHEU71	5006	574396	1 - 278	15 - 292	
HNHEV25	5007	577111	1 - 123	15 - 137	
HNHEV44	5008	716661	1 - 690	15 - 704	
HNHEV46	5009	577337	1 - 181	15 - 195	
HNHEV49	5010	575777	1 - 303	15 - 317	
HNHEW03	5011	924475	1 - 483	15 - 497	
HNHEW14	5012	658506	1 - 477	15 - 491	
HNHEW19	5013	953446	1 - 359	15 - 373	
HNHEW21	5014	670987	1 - 243	15 - 257	
HNHEW75	5015	576361	1 - 402	15 - 416	
HNHEW76	5016	770081	1 - 391	15 - 405	
					T79157, AI696334, H89746, AL133216, AF020782, AC004883, and Z96681.
					AL022098.
					T59662, T59795, and AF147377.

HNHEW95	5017	953566	1 - 382	15 - 396	AC005624.
HNHEX12	5018	970764	1 - 362	15 - 376	
HNHEX40	5019	711225	1 - 412	15 - 426	AI339302, AA534221, AA678404, N57939, AW007294, AI291560, AC005206, AC005667, AC004382, AC000353, AF030453, AC005088, AC004770, AC004835, AC007450, AL132777, AL035685, AL133355, AC005620, AC003012, AC022517, AC004598, AC005006, AC006449, AC003109, AL139054, AC004841, AC003684, AL022162, AL035450, AC004012, AC004985, AL035079, AC004447, AC005300, AC006126, AF196779, AL133500, AC002349, AC004228, AC002480, AL079342, AC004813, AC006101, AL049781, Z84476, AF139813, AL050341, AC004884, and AC005790.
HNHEX54	5020	575783	1 - 423	15 - 437	AL049646, Z55781, and Z54485.
HNHEX66	5021	860036	1 - 410	15 - 424	
HNHEX77	5022	860037	1 - 418	15 - 432	
HNHEX59	5023	959668	1 - 401	15 - 415	
HNHEX63	5024	575741	1 - 384	15 - 398	AL047308.
HNHEX93	5025	575745	1 - 290	15 - 304	Z82217, U95626, AC007751, AC005863, AC002288, and AC008069.
HNHEZ07	5026	953438	1 - 141	15 - 155	
HNHEZ18	5027	575788	1 - 154	15 - 168	
HNHEZ19	5028	887442	1 - 293	15 - 307	AL119623, and AB020628.
HNHEA05	5029	860033	1 - 506	15 - 520	
HNHEA11	5030	967126	1 - 397	15 - 411	
HNHEFA35	5031	577302	1 - 398	15 - 412	
HNHEFA59	5032	576394	1 - 400	15 - 414	AW083544.
HNHEFB09	5033	575786	1 - 422	15 - 436	AI612930, AA365413, AA224238, AA531079, AA074342, AA077737, AA679532, AA582463, N25272, AL042927, AA484658, AA847702, H02485, AA779454, AW265090, AI682665, AW129526, AI061313, AC006285, AC016025, L78810, M63391, AC004000, AC018633, M87925, AL035587, AC005778, AC005060, AC005523, AC003695, AC002091, AC004973, AL133312, AL078639, AC005696, AC005089, AC004031, AC005694, AC004655, AC007270, AC004981, AC005527, AL022336, AL139054, AC007637, AC004771, AC000072, AC006241, AL132777, AC007666, AC006387, AC006380, AF010400, AC005829, AL031662, AC004231, AP000065, AC003682, AC008125, AL080317, AC003025, AL021397, AC007676, AC005363, Z97054, AL096712, AF139813, AC004257, U89337, AC004643, U67220, Y18000, AL031431, L77569, AL049776, AC004228, AC007227, AL133448, AC005901, AL035071, AC006130, Z83846, AC005592, AB016195, AC004967, AC007787, AC004983, AC007688, AC001228, AP000228, AC003029, AC003684, AC012627, Z73420, AC001914, AC004760, AP000140, AC002464, AC005529, AC005049, AC002303, AC005220, AC008171, AC007314, AC005668, AC004150, AL020995, AC005520, AC005086, AL096861, AC006441, AC002365, AC002504, AC005274,

HNHFB19	5034	668713	1 - 274	15 - 288	AP001053, AC006120, AL049565, AC007263, AC004821, AL049830, Z98752, AP000088, AC004067, AC005620, AL023807, AC003070, AC005015, AL096701, AC005164, AC006476, AL109758, AC005291, AC004263, AC007172, AL109628, AC003043, AC006530, AC005207, AC004814, AC002477, AC006333, AL049743, AL009179, AC005369, AC006277, AP000172, AP000057, AP000125, AL035460, Z85995, AC004230, AL117337, AC005755, AC007649, AC009516, U29895, AL121653, and AC006125.
HNHFB27	5035	576865	1 - 415	15 - 429	AC002073.
HNHFB32	5036	836006	1 - 432	15 - 446	AC007845, AC016025, and AC016026.
HNHFB39	5037	575740	1 - 408	15 - 422	
HNHFB53	5038	728265	1 - 393	15 - 407	AI082315.
HNHFC34	5039	860027	1 - 376	15 - 390	
HNHFC43	5040	583660	1 - 494	15 - 508	
HNHFC60	5041	576438	1 - 522	15 - 536	L47334, AC004944, U95739, and AL118509.
HNHFC61	5042	577185	1 - 380	15 - 394	
HNHFC67	5043	576385	1 - 348	15 - 362	
HNHFC78	5044	576435	1 - 376	15 - 390	AI525653, AI525669, and AI557222.
HNHFC92	5045	577240	1 - 326	15 - 340	Y18000, AC004882, and AC005529.
HNHFD46	5046	576796	1 - 370	15 - 384	
HNHFD88	5047	506354	1 - 345	15 - 359	AC004556.
HNHFE07	5048	953585	1 - 68	15 - 82	
HNHFE40	5049	576431	1 - 404	15 - 418	AF002994.
HNHFE69	5050	577244	1 - 329	15 - 343	
HNHFF08	5051	860229	1 - 685	15 - 699	AA506952, T52745, AI280574, AA832016, AI270177, AA831801, H81732, AA358086, M78131, F23264, AI554725, AI436330, AA320105, AA602906, AI249365, AA633424, AI568659, AW439703, N99245, AA054639, AI928890, AA730035, AW020150, AW151541, AI521525, AI362694, AA635433, AI298079, AI653525, AW006088, AW088130, AA809153, AI619987, AL046416, AW304580, AL040374, AW238712, AI056537, F07564, AA553394, AA622801, AI753672, AL040816, R70884, AI345497, AA932407, AA015948, AI610439, AA525331, AA650447, AI871913, R70883, AA525293, AA365980, AA508036, AI918419, AA811954, AI251576, AW407632, AA937809, AA351808, AL118925, AI754567, AW419389, AW102811, AI754105, AI358712, AI755214, AA743968, AI096874, AI686563, AI040273, AI306232, F00688, AA838091, AA806804, AW274191, AI609972, AI990666, AL041375, R87135, AI863279, AI635440, AA282951, AI419337, AI361090, F30310, AI479068, AW189113, AA378474, AA533054, AA834764, AA057522, AA594719, AA528744, AA525522, AI207422, AI421950, AL079734, AA454504, AL079339, Z82244, AC005338, AC020663, AL117355, AF091512,

				AL049591, Z97876, AL079340, AL121595, AL021707, AC002994, AL008635, AL034402, AL035659, AC004881, AF111168, AJ003147, Z84484, D87675, AC005887, AC003957, AC004805, AL031985, AL031431, AC005902, AC007066, AP000141, Z85987, AC005695, AL031278, AC005828, D86995, AL121603, AP000088, AC007688, Z83826, AC005181, AC018633, AL022165, AF109907, AC005067, AC007773, AL096775, AF038458, AC006360, AC005089, AC004263, AC004520, AC004997, AB003151, AL008626, AL122007, AL008719, AL049792, AC005932, AL079305, AL109829, AL035461, AL136295, AC006343, AC005585, AC005578, AC006960, AL031662, AL022326, AC006026, Z83847, Z95118, AL035460, AC006196, AL024507, AC003046, AL121658, AP000689, AB014085, AC004187, AP000515, AB020868, AL035413, AC002073, AL035086, AC006064, AC006312, AC004941, AL135744, AL117693, AC002351, AL049829, AC005912, Z98743, AC007025, AC009294, AL031848, AP000108, AB001523, AC007541, AL031286, L35532, AC002400, AC005017, AC005375, AC002069, AL031280, X64467, AC006441, AL049844, AC005081, AC004230, AL031592, AC002316, AC005358, AC005215, AL031904, AL080243, AL031776, AL031984, AF099810, AC007114, AL022313, AC002395, AL022394, AC004686, AC007546, AC005821, AC007899, AC007792, AC007565, AC006557, AF064857, AC004383, AC004797, AL133245, AC007536, Z82976, Z99943, AC004712, AL031686, AC004638, AC004148, AL049694, AL079342, AC007036, AC005031, AP000031, AC007388, Z97053, AL109839, L18750, AC003025, AC005525, AC007157, AP000255, AC005781, L11910, Z86064, AC006004, U62631, AC005746, AC004241, AC004675, AC002310, AL034554, AF139813, AF141309, AP001054, Z83838, AC005537, AC004593, AC005212, AC003037, AF207550, AC004531, AC005018, U80017, AF126403, AL021391, AL080313, AL031276, AL031186, AC005519, Z49258, AC015853, AP001063, AC004913, AL023575, AP000213, AF088219, L47334, AL117258, AC004527, AC005479, AP000501, AC008268, AC004042, AF047825, Z82205, AC002107, AC005786, Z84483, AL049650, AC005666, AC005220, AC006480, AC002984, AC004228, AC004477, AP000135, AC003007, U95742, AF001550, AL133382, AC004216, AC010200, AP000303, AP000114, AP000046, AC006959, Z98036, AL031778, AF016898, AL050334, AF067844, U63721, AC004938, AC007227, Z99716, U85195, U08988, AC012085, AL031685, AL049631, AC005587, AC006287, AL035249, AC004253, AL035398, AL021394, AL050341, AL009172, AC003012, and AP000473.
HNHFF21	5052	625613	1 - 326	15 - 340
HNHFF29	5053	576412	1 - 268	15 - 282
HNHFF56	5054	576432	1 - 434	15 - 448
HNHFG07	5055	953569	1 - 386	15 - 400
HNHFG11	5056	967255	1 - 316	15 - 330
HNHFG37	5057	658459	1 - 393	15 - 407
HNHFG94	5058	720292	1 - 389	15 - 403

HNHFH21	5059	575785	1 - 576	15 - 590	N28488.
HNHFH56	5060	575784	1 - 243	15 - 257	
HNHFH78	5061	773610	1 - 386	15 - 400	
HNHFH69	5062	575747	1 - 128	15 - 142	AC007226, U95743, AC006363, and AL022345.
HNHFH88	5063	575751	1 - 343	15 - 357	
HNHFH95	5064	577328	1 - 434	15 - 448	
HNHFH45	5065	720757	1 - 439	15 - 453	
HNHFH67	5066	699523	1 - 444	15 - 458	AA293828, and H66294.
HNHFH37	5067	576386	1 - 389	15 - 403	
HNHFH77	5068	970770	1 - 440	15 - 454	R43540, R48276, R48377, R43540, H14811, H14844, H25270, R98805, H48383, H61221, N29968, W23460, W73630, W73678, W95886, AA031537, AA085279, AA166981, AA195032, AA195160, AA211848, AA252180, AA291950, AA470617, AA527697, AA527705, AA523619, AA610324, AA610375, AA631087, AA639486, AA662219, AA761630, AA769549, AA836835, AA857900, AA877434, AA887793, AA911923, AA919116, A1031861, A1088765, A1097438, AA242793, AA291420, AA434487, AA670443, AA680029, AA434391, AA707307, AA719146, AA723473, AA725011, AA780009, AA854072, AA854177, AA904890, AA927579, A1026017, A1026142, A1027032, A1039424, A1082533, A1092443, A1095580, D45614, A1306736, A1311850, A1344587, A1346859, A1401696, A1475602, A1491923, A1560607, A1561040, A1565775, A1497986, A1567445, A1582162, A1424489, A1127220, A1129847, A1131403, A1216030, A1218681, A1221771, A1240379, A1659547, A1538610, A1539637, A1275475, A1332813, A1349444, A1350915, A1589172, A1682495, A1684064, A1689701, A1763230, A1829821, A1831189, A1831933, A1870019, A1870152, A1888031, A1811628, A1914567, A1918439, A1921759, A1937559, A1952650, A1952779, AW004929, AW005538, and AW024659.
HNHFL48	5069	664588	1 - 294	15 - 308	AJ007751, AC010517, AJ007752, D29748, AJ130757, S67971, and AJ130755.
HNHFL82	5070	576428	1 - 386	15 - 400	AL021528.
HNHFH01	5071	916787	1 - 290	15 - 304	AL096757.
HNHFH32	5072	577331	1 - 346	15 - 360	
HNHFH30	5073	691083	1 - 398	15 - 412	
HNHFH52	5074	727258	1 - 216	15 - 230	
HNHFH95	5075	761672	1 - 316	15 - 330	
HNHFH045	5076	576408	1 - 351	15 - 365	
HNHFH048	5077	707311	1 - 624	15 - 638	H05570, and AC005146.
HNHFH09	5078	860013	1 - 299	15 - 313	AL031590.
HNHFH10	5079	964849	1 - 440	15 - 454	
HNHFH01	5080	916773	1 - 338	15 - 352	
HNHFH19	5081	418108	1 - 149	15 - 163	

HNHFQ30	5082	692807	1 - 272	15 - 286	
HNHFQ75	5083	766595	1 - 343	15 - 357	
HNHFQ88	5084	576398	1 - 436	15 - 450	AI420786, and AC005592.
HNHFQ92	5085	576400	1 - 139	15 - 153	
HNHFR12	5086	860003	1 - 303	15 - 317	
HNHFR22	5087	964716	1 - 430	15 - 444	AA640685, AA804925, AI289850, F29541, AA601195, AI471691, AA728937, AI133448, AC005722, AC004895, AC005529, AC005488, AF165926, AF109907, Z83822, AC005015, AC004882, AF207550, AC006285, AF053356, AC006071, AP000689, AB003151, AC002994, AC007688, AC006953, AI109798, AC005412, AC009247, AC006946, AI031311, AI096791, AC005837, Z95331, AC007263, AC004967, AC005089, AI031666, Z93017, AI135783, AC006449, AC006277, AI022328, AP000049, AP000116, Z95116, AC000353, AP000311, AC006538, Z83844, AC007216, AI035684, AC002369, AC006120, AC004905, AC006023, AF064861, AC002302, AC003043, AI078638, AI008718, AP000557, AD000091, AC005280, AC007546, AI021707, AI133246, AI035072, AC005206, AI049779, AP000036, AC005081, AC004150, AC000134, AC004383, AC005520, AP000343, AC007285, AI023575, AI135960, AI131016, Z98946, AC005667, AC004453, AC007151, AI035423, Z86090, AC004682, J02698, U73636, AI132777, AC005231, AC002996, AI021397, AP000352, AC005736, AI096701, AI022476, AC005180, AC005778, AP000031, AI009181, U82668, AC004228, AC005952, AC004859, Z84474, AC006430, AC004821, AC003950, AI031595, AC004985, U47924, U95742, Z98036, AC003670, AI031005, and AI049569.
HNHFR24	5088	577330	1 - 322	15 - 336	
HNHFR67	5089	751787	1 - 338	15 - 352	
HNHFS03	5090	924610	1 - 511	15 - 525	
HNHFS79	5091	734798	1 - 416	15 - 430	AC005747.
HNHFU09	5092	625726	1 - 433	15 - 447	AC002069.
HNHFU35	5093	707335	1 - 298	15 - 312	
HNHFU45	5094	920844	1 - 432	15 - 446	AI109758.
HNHFU57	5095	860002	1 - 435	15 - 449	AW304536, AI356440, AA102737, H29914, AA715173, AA715075, AA904211, R93919, AA314891, AW008169, AI433104, AA302661, AA541532, AI281561, AA338238, AI133514, AA568204, AA570740, AA483606, AI571538, AI249683, AI138329, AA338237, H68360, AI491765, AI189682, AA630854, AA206230, AA664604, AI355246, AW023111, AI336771, AW084967, AA493947, AI041375, H38769, AA491767, AA515939, AA714110, AA846923, H84412, AA626829, AI792529, AI054193, T90477, AA632765, AI609972, AA161492, AA857812, AA279919, AA493808, AI538236, AA297208, AC005412, AC006409, AI035461, AJ012008, AC005088, Z83844, Z95115, AC002351, U91321, AC005696, AC005529, AI049710, AC004084, AC004796, AF172277, AI133312, AC003070, AC006205, AI049569, AI031432,

					AL034548, AJ251973, AC005520, AC006538, AC006071, AL096816, AC005071, AP000272, AL022476, AC006312, AL049712, AC005089, AF047825, AC007308, AC005763, AP000501, AC006948, AC002470, AL049856, AC007637, AP000248, AC007537, AC005793, AC005527, AC004884, AF196971, Z98743, AC007708, AL031311, Z95331, AC004983, Z93023, AL049697, AC007011, AC004098, Z98941, AC002425, AC004019, AP000030, AL031003, AP000104, AL049591, AC002300, AC000025, AL035405, AL031281, AC002375, AL049766, AL021154, AL034423, AC005592, AC007114, AL049836, AC007237, AC002994, Z93241, AL022336, Z97053, AL122020, AL031848, AC005695, AL031685, AC004819, AC005070, AL033527, AP000510, AL035413, AC005841, AL117694, AC005086, AP000194, AC005562, AC006241, AC005920, AL035652, Z84487, AC007298, AL035071, AC003043, AC004448, Z82179, AL031680, AL035086, AC004382, AC003010, AC007225, AL022396, AC006965, AP000692, Y18000, AC004491, AC006141, AC005233, AF067844, AB023049, AC005330, AL022163, AC005789, Z95114, AF126403, AC004799, Z97056, AL049636, AL049839, AC005280, AC007066, AC005484, AC005317, AL031427, AC004962, AC007774, AC000052, AC006441, AC009516, AC005541, AL121658, AC002070, AL009181, AC004149, L78833, AC005606, AC003982, AP000010, AP000504, AF088219, AC004910, AL031729, AC005839, Z83846, AC005632, AC002119, AC002072, AC007344, U95740, AC003662, AC002350, AC004686, AF196779, AC005803, AL035089, AL049776, AC006115, AC002996, AL079342, AC005962, AC002565, Z98884, AL008582, AL035462, AL031777, AF207550, Z98044, AL031228, AL021393, AJ246003, AC004963, AL031431, AC000353, AL031906, AC004812, AC005670, AC007993, AC005932, AB016897, AC006511, AF001548, AC005295, AC004815, AC004814, AC002045, AL121603, Z82188, AL035249, AC002288, AC006449, AL080317, AL035420, AF024533, AL022313, AC006057, Z96074, AC005971, AC005291, AC012384, AL031587, AC005535, AC005736, Z98749, AC002302, AC004865, AB014077, AC006229, AC007227, AL132712, AC006512, AL021155, AC004552, AL035683, AC006953, AC009946, AC005666, AL035587, AC004828, AL109756, AP000054, U95090, AP000011, AC002476, AL023096, AC005316, AC005399, AC005244, AF042089, AL035400, Z84469, AC004816, AC007199, AL022577, AC007934, AC007421, and AL096701.
HNHFV16	5096	952376	1 - 360	15 - 374	AL022319.
HNHFV52	5097	576390	1 - 387	15 - 401	
HNHFV56	5098	724417	1 - 514	15 - 528	
HNHFV66	5099	860000	1 - 350	15 - 364	
HNHFV68	5100	925820	1 - 334	15 - 348	AA045668, T51787, and A1752482.
HNHFV70	5101	757281	1 - 317	15 - 331	AA045947, AA367403, AC003976, AC005702, AC005362, and AC003958.
HNHFV08	5102	959476	1 - 406	15 - 420	AA075754, AA618286, AA295899, AA295893, AA774098, AA354695, A1859744, AA483141, AW327555, AA633892, AA340226, AA569448, AA834799, AF034176, AA376358, A1732911, AA177130, AA225634, AA825954, AA452325, AA730795, AA496268, T06805, F16409,

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HNHFV29	5103	663912	1 - 410	15 - 424	
HNHFV22	5104	674638	1 - 189	15 - 203	
HNHFV35	5105	668656	1 - 344	15 - 358	AC005519.
HNHFV56	5106	716628	1 - 402	15 - 416	
HNHFV68	5107	753045	1 - 96	15 - 110	AC004468.
HNHFV70	5108	756459	1 - 381	15 - 395	Z54072.
HNHFV89	5109	712347	1 - 413	15 - 427	

HNHFY21	5110	670946	1 - 408	15 - 422	
HNHFY95	5111	734764	1 - 363	15 - 377	
HNHGA24	5112	967093	1 - 433	15 - 447	AF095901, AC005971, and AC003006.
HNHGA33	5113	702461	1 - 189	15 - 203	
HNHGA46	5114	719073	1 - 359	15 - 373	AA579437, R98945, A1168274, A1092694, T68597, AW161893, AW438907, AA618172, AI085078, AA632695, H27102, AC007676, U91326, Z49154, AC005516, AP000066, Z98941, AL031685, AC004056, AC006449, AL031680, AC005921, Z84484, AC007559, M63796, AC002400, AL022476, AC002302, AF024533, AC006965, AC005940, AC005479, AL121655, AL035495, AP000349, AC005102, AL050307, AC003962, L44140, AC005156, AL139054, AC003689, AF001549, AC006544, AC005332, AC002565, AC006581, AL035086, AC005785, AC006076, AL031681, AL049709, AC006572, AC007637, AC005523, AC004584, AL009031, and AB017567.
HNHGB83	5115	781205	1 - 325	15 - 339	AA604326, AA483223, AA513850, AA486580, AA533036, AA548511, F25695, AA824655, AA127636, AA641199, AA568778, AL044438, AA601355, AA670468, AA481050, AA397572, AA486885, AA824654, AA368679, AA678443, M77868, AA081909, AA488249, N20967, AA346575, AA623002, AA577906, AA973803, AA446657, N22533, AA347114, AA906889, AA649722, AA720691, H86097, AA669840, AA858197, AA357552, AA503473, AA928904, T53128, AA341336, AA643469, AA490183, W96048, AA078691, AA653964, AA805860, T28708, AA740921, AA458736, AA702745, AA678436, AA059472, AI002796, AA678772, AA644538, AA810370, F35659, AA158301, AA788883, AA604854, AA134347, F09736, AA204718, R32415, AA319830, AA610420, AA602528, AA304977, R84296, AA838096, N20219, AA704643, AA325597, AA480790, AA235466, AA158328, AA330380, AA525151, T94817, AA825299, AA833792, AA053551, AA834755, AA678499, AA633094, AA552843, H96850, T16056, AA484153, AA664135, T55236, AA132914, AA702293, AA437161, AA630606, AA604107, AA629571, AA280632, AL134267, R97934, R84309, AA812433, AA630925, D57369, R65889, AA524809, AA526757, R92288, AA715263, R84303, H02877, W16581, AA603156, AA459873, AI648558, AA826793, AA347170, H11124, AA287640, AA608595, AA994578, AA639248, AA584749, H02135, N69316, T49241, AA434388, H79151, H80306, AL037050, AW069807, AA483780, AA143490, T67750, AA053635, AA172191, AA774184, AA190895, AA632548, T15897, AA515909, AA605032, AA167643, AW390062, AA494025, AA908857, AA524838, AA654761, AA846929, AI890096, AA405493, AA557854, AI275328, AA569167, AI251250, AI284881, AA521355, AA574110, AC006512, AF003529, AC002384, AF029308, AC004690, Z95124, Z95331, AF227510, AL031965, AC003973, AL049837, AC006560, AC006548, AF130343, AC006511, AL136520, AC004075, AC003003, AL121823, AL031054, Z97206, AC004968, AC005191, AC005181, AC007372, Z68870, AP000507, AC007161, AC012083, AP000086, AC005690, AC008069, AC004006, Z83841, AC004614, AC005036, AB020868, AL133233, AL049562, AL109654, AC009286, AF070718, AP000166, AL121871,

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HNHGB96	5116	784362	1 - 406	15 - 420	
HNHGC13	5117	927065	1 - 344	15 - 358	
HNHGC35	5118	707337	1 - 310	15 - 324	
HNHGC41	5119	711654	1 - 259	15 - 273	AI804902, AC006117, AC007421, and AF051976.
HNHGC62	5120	733745	1 - 641	15 - 655	H40460, T87587, T99479, T79930, T98889, R45850, and H40461.
HNHGD07	5121	953416	1 - 412	15 - 426	AI798767, AI762354, AA960878, AA994187, AI150216, AI203673, AW304455, AI669778, AI638227, AI629021, AI032379, AW206145, AI216900, AI652606, AI949596, AI200754, AI652758, AA365065, AA400904, AA775880, AA935607, AA628104, AA913740, AA682231, AA442250, and AA970252.
HNHGD14	5122	920149	1 - 425	15 - 439	
HNHGD50	5123	667930	1 - 341	15 - 355	F31867, AI250552, AI251034, AI254770, AI284543, AI054090, AI251284, AI251203, AI223626, AI246061, AI090334, AI251241, AW303098, AA502098, AI312533, AI135605, AW339422, AI798041, AW249541, AA491814, T99717, AA356310, T55707, AA746959, AA492114, AI249886, AA747480, AI358008, AC004778, AC007201, AL096791, Z93930, Z98200, AL009181, Z82208, AC005778, AL031848, AL109798, AL078476, AC006130, AC005841, AC007546, AL035681, AL049766, AL034379, AC005387, AC005776, AC007100, AC005837,

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HNHGD51	5124	934632	1 - 392	15 - 406	AC005043, and AL035417.
HNHGD68	5125	753053	1 - 393	15 - 407	
HNHGD84	5126	671077	1 - 414	15 - 428	AC005242.
HNHGE09	5127	939727	1 - 633	15 - 647	T03269, D58283, D80193, D59927, D80166, D80195, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80219, D80038, D80269, C14429, D59889, D81030, D80366, D59502, D57483, D80022, D59275, D80045, D59610, AW178893, D80378, D50979, D50995, D80024, D59787, D80241, D51097, C14014, C75259, D80164, C14331, D80134, AI905856, D59467, AW177440, C14389, C15076, AW179328, AW178775, AA305409, AW378532, D51060, AW352158, AW177501, AW177511, AW352117, D80949, D80168, AW178762, D58253, D51079, D51022, AW176467, AW375405, AW360811, AA305578, AW377671, AW366296, D80251, AW360844, AW360817, AW360834, D81026, AW375406, AW378534, D80248, AW179332, AW377672, AW179023, AW178905,

HNHGE27	5128	683432	1 - 359	15 - 373	AA514188, AW179220, AW352172, AW352171, D80522, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW178906, AW177505, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, D80132, AW179004, D80268, AW178914, AW178911, D80302, AW178774, D80439, D80247, T48593, AW367967, AW178983, AW177723, AW352174, AA033512, D51103, AW378533, D80157, AW367950, AW178986, D80314, AI535850, C06015, D45260, C14975, AI525913, AI525923, A62298, A62300, AJ132110, A84916, A67220, D89785, A78862, X67155, A25909, AR025207, D34614, D26022, D88547, Y17188, X82626, AR018138, AB012117, A85396, AR066482, Y12724, A44171, A85477, I19525, A86792, AF058696, X93549, AR08278, AB028859, AF135125, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, D88507, AR066488, AR064240, A82595, AR016514, D50010, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB033111, AB002449, AR066487, A43192, A43190, AR038669, A30438, AR066490, D13509, AR060133, Y17187, AR008408, A63261, U87247, A70867, Z32749, AB023656, AR062872, U79457, AR016691, AR016690, U46128, X93535, and AR008382.
HNHGE43	5129	715304	1 - 315	15 - 329	AA488743, AA308092, AA676628, AL031311, AP000347, AP000346, AC005210, AC005839, AL031681, AC007227, AC005105, AC004139, AC007559, AL109799, U85195, AE000638, AL022302, Z95116, AL031671, AL034402, AC004010, AC005225, AC005519, AL031680, AL109963, AL021069, AC004920, AC003024, Z96811, and AC002544.
HNHGE64	5130	746605	1 - 303	15 - 317	
HNHGF14	5131	835984	1 - 419	15 - 433	
HNHGF21	5132	670956	1 - 399	15 - 413	
HNHGF37	5133	708708	1 - 520	15 - 534	AC002470, AL135745, AC002565, AC005015, AC005300, and AC002117.
HNHGF45	5134	859852	1 - 372	15 - 386	AL022097.
HNHGF46	5135	705128	1 - 411	15 - 425	W40172, AA129812, AA382562, AA057128, N44954, W93959, W96112, W65434, AA321463, R91613, AA010986, AA311729, AA456863, AA355485, AA047510, AA133759, T77131, T97680, W44481, Z60594, and AF191020.
HNHGF85	5136	761811	1 - 356	15 - 370	AA745297, AL070744, AW169038, AI570805, AL037777, AA528574, AA528503, R08192, AW304536, AW338042, H01243, AI538236, R99533, H60827, AA630122, W03330, AA434364, AC005089, AL049591, AL021391, AC005881, AC004129, AP000555, U52112, Z93241, AL021707, AF064861, AL024498, AC006080, AC003025, AF139813, AC005666, AC006277, AC005048, AF165926, AC003101, AC007371, AC005952, AL031668, AC005389, AL031276, AC005376, AC005826, AC006379, AC006948, AC005932, AP000243, AP000126, AP000204, AF047825, AC006241, AC005071, AC005736, AC005546, AF051769, AC007073, AC006023, AL035423, AL031602, AC003982, AL133312, AL049569, L44140, AC007934, AF024534, AP000279, AL031672, U95626, AL078584, AL022320, AC005624, AP000106, AP000038,

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HNHGF90	5137	730957	1 - 392	15 - 406	
HNHGF91	5138	750389	1 - 418	15 - 432	
HNHGG06	5139	935530	1 - 392	15 - 406	
HNHGG73	5140	764446	1 - 253	15 - 267	
HNHGG76	5141	746607	1 - 246	15 - 260	
					R02639, and R02523.
					AL048558, AW236342, AI824562, AA747472, AI697208, AL041706, H55914, AA515435, AA484187, AA649642, AA318652, AA515224, AW440976, AI358571, AI205126, AA483034, H55891, AA077817, AI281697, AI379719, AA017322, AA548137, AA441788, AI064729, F23279, AI216799, AI357551, AI354426, AI251002, W07122, AI291124, AA317170, AI053672, AW079241, AL039958, AI921296, AA514819, AI291268, F37169, AW265393, AI284640, AI537030, AA557686, AI473943, AW303876, AA663482, AI281881, F33121, AW274349, AA084070, AA632650, F36273, AI334443, AI471481, AA745410, AI937850, T63104, AA491762, AA470985, AA483234, AI564185, AW029526, AI133164, AI929531, AI364809, AA503258, AW303196, AW301350, AW338086, F18320, AI251021, AA664148, AW088058, AI252554, AL041733, AI749284, AW162049, AA325699, T06556, AA745582, AA350859, AL137954, AI091495, AI287651, AL079812, AW166815, AW028403, AI821279, AI446464, AW148792, AL079843, AW406162, AA664535, AI434695, AW419262, AA595782, AA825357, R91994, AI351698, AI499938, T08638, AW440299, AA365302, AI219406, T03772, AA533036, N75702, AI358813, AI567674, AA605274, AA252763, AF150152, AI357288, AI570212, AW249835, AW020992, AI312149, AI439210, AA613345, AA713815, T40077, AI434311, AW270270, AW406447, AI110770, AA470534, AW168342, AA177061, AI467919, AW104813, AI888518, AA657741, AA161095, AI890923, AW162489, AA680211, AI281903, AA679872, AI148277, AI279165, AI628288, AA521277, AL038474, AW079792, AW022379, AA652057, AI539563, AI439360, AI962050, AA347927, Z99716, AL049830, AC005323, AL031388, AC005696, AC007363, AC012627, Z98884, AC007036, AC004805, AC000004, Z98948, AP000054, AL110502, AC000066, AC004067, AL034545, AF064857, AP000548, AF044083, AL035411, AC005541, AC005844, AC003668, AC006501, AC006543, AL031681, AC005082, AC002543,

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HNHGG89	5142	772213	1 - 343	15 - 357	
HNHGG93	5143	792335	1 - 565	15 - 579	
HNHGG95	5144	760386	1 - 399	15 - 413	AC004894.
HNHGH02	5145	920147	1 - 520	15 - 534	
HNHGH20	5146	959499	1 - 391	15 - 405	
HNHGH42	5147	713036	1 - 418	15 - 432	<p> AA488395, AI580652, AW269488, H88666, AA491814, AA177061, AI499938, AI184226, AI376100, AI921649, AA581903, AW406659, AI589230, AW088202, AA448231, AA452563, AW238278, AW103758, AW261871, AW406162, AL119691, AI887483, AA503258, AA469451, AI859251, F29989, AW276827, AL046409, AI471543, F17555, AI889923, AI053790, AI567674, AI499181, AA503284, AL1679045, AA493708, AL138265, AI345518, AA654979, AI471481, </p>

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HNHGJ35	5148	707336	1 - 422	15 - 436	
HNHGJ79	5149	775218	1 - 307	15 - 321	
HNHGJ81	5150	576279	1 - 418	15 - 432	
HNHGJ03	5151	968076	1 - 309	15 - 323	
HNHGJ09	5152	625624	1 - 394	15 - 408	AA847508, AI040051, AI499954, AW337526, AA654874, F24728, AA541532, AA378489, AW407632, AA745628, R99076, AI653783, AI421755, AI915081, AW002831, AL045476, AI345123, F24745, AA059247, H86546, H85032, AA613624, AA017169, H91062, AI358557, N90460, AA804187, AI431513, AA640563, AA847427, AA862075, AI733523, AA747375, T51436, AI380617, AI032411, AI801479, AA626632, AI440037, R99144, Z93017, AF196779, AC005363, U02068, AC004841, AL023807, Z97183, AC006057, AL035681, D86995, AC004943, AC004796, AL008715, AC005102, Z82244, AF053356, AP000555, AP000512, AL049569, AL022476, AL009181, AP000115, AC005899, AC003108, AL031587, AC005393, AC004148, AC002551, AL022721, AL109952, AC006486, AF003626, AF134726, U95742, AC008372, AC005666, AC007537, Y18000, U02057, AC007216, AF207550, AC004000, L78810, AC005409, AC004531, AF196970, AC005071, U91323, AL035659, AC002472, AC004832, AC006312, AC005535, AC004590, AL050337, AL022328, Z98044, M84472, AC007363, AC007055, M89651, AF111168, AC005971, AF205588, AP000358, AC006505, AC006468, AL139054, AC000039, AL031228, AC008044, U37355, U37357, AL008718, AL034394, AL117694, AF075098, AC003110, AP001065, AP000359, AL031255, AC005746, Z97053, AC005081, AP000076, AC005412, AC003043, AC002430, Z85987, AP001053, AC004552, AL022315, AC005920, AC005996, AL109827, U34879, AC007637, AF047825, U96629, AC005529, AC007384, AF176815, U80460, AL049780, AC005377, AL031432, AB001523, AP000289, M30688, AC005225, AL034418, AC005911, AC006011, AC006597, AC004491, AC006254, AC007934,

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HNHGJ20	5153	668916	1 - 384	15 - 398	AL022341.
HNHGJ28	5154	686733	1 - 309	15 - 323	AA724689, AI699833, AA433894, AA314522, D25249, F29184, AA296881, AA326270, AI791913, AI792133, AI821714, AI611569, AI611598, AA663201, AI340641, AA501649, AI668679, AI734264, AA039512, AA063546, AA515728, T86545, AW407371, AI335995, AI821785, AA838190, AW304580, AA547947, AW029515, AA933776, AA039511, R44623, AI354388, AI700000, R57956, AI133566, AI420028, AA595499, AA169247, AA527838, AC006126, AC005081, AP000555, Z84469, AC005261, AC006538, AP000102, AC002316, AC004799, AC005409, AC005736, AL031584, AC006511, AC004812, AF045555, AC007227, AL096701, AC003101, AL133245, AC007364, AB023049, AC004386, Z85986, AC000353, AF109907, U91326, AC005004, AC004491, AC007011, AF196779, AC010205, Z95152, AC005071, AP000512, AC016026, AC005046, AC004876, AC004813, AL109939, Z84483, AL022312, U07563, AC004381, AC002369, AL022315, AC007842, AC004966, AC007536, AC005620, AC006084, AC006011, AC002037, AL049830, AC004253, AC005829, AL022165, AL008721, AC004150, AL133485, AC003007, AC002470, AC002425, AL031311, AL121655, AL008633, AC005037, AP000104, AL023807, AL008726, AC007707, AL021707, AL031594, AC002059, AC005800, AC005899, Z83840, AC004890, AL136295, Z95115, AC006960, AC005488, AP000558, AC005280, AL009179, AF053356, AC004031, AC004526, Z74739, AJ003147, AC006088, AB004907, AC005057, AL135744, AC003037, AL049839, AC004953, AC016025, AL049643, AC006449, AL008723, AP000353, AC005102, AC006071, AL022313, AC002347, Z93930, AC002544, AP000251, AC004030, AF165926, AC004765, AC006480, AC005786, AP000030, AP000211, AP000133, AL021579, AF047825, AC007225, AL133553, AP000690, AC005523, AC005598, AC005722, AC002073, Z98051, AF064861, Z84718, AC002301, AC005231, AC002400, AL122020, U47924, AC006210, AC004854, AL008582, AL049795, Z82215, AL049757, AC004858, AC004382, AC004531, AC009516, AC007057, AL117328, AC006468, AF196970, L44140, Z97989, U85195, AC004019, AC007731, AC004821,

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HNHGJ39	5155	850088	1 - 456	15 - 470	
HNHGJ65	5156	750269	1 - 405	15 - 419	
HNHGJ81	5157	777958	1 - 616	15 - 630	
HNHGK05	5158	935525	1 - 308	15 - 322	AF064862, and AF064865.
HNHGK24	5159	783674	1 - 426	15 - 440	
HNHGK70	5160	728593	1 - 409	15 - 423	AA633727, AL042361, AA429543, R54767, AI880143, W03215, AA317624, AA703958, AA703747, R96964, H80600, AA491063, AA601475, AA603184, AA412382, T66045, AA491139, AI214163, AA083243, AI880175, AA211922, AA393354, AW264118, AA077800, H29782, AC004987, AC004916, AL133216, AC006328, and AF109718.
HNHGN17	5161	663923	1 - 321	15 - 335	
HNHGO21	5162	670955	1 - 276	15 - 290	
HNHGO65	5163	750267	1 - 119	15 - 133	
HNHGO68	5164	732370	1 - 363	15 - 377	
HNHGP08	5165	859964	1 - 106	15 - 120	
HNHGP31	5166	698047	1 - 528	15 - 542	
HNHGP32	5167	699292	1 - 434	15 - 448	
HNHGP40	5168	916551	1 - 428	15 - 442	
HNHGP73	5169	934446	1 - 865	15 - 879	F24281, AC005180, AC004178, AL035542, AL035086, Z95114, AP000305, AC005324, AP000047, AP000115, AL030996, and AL109865.
HNHGP83	5170	780328	1 - 546	15 - 560	
HNHGO02	5171	920146	1 - 433	15 - 447	
HNHGO25	5172	678151	1 - 434	15 - 448	
HNHGO28	5173	859965	1 - 433	15 - 447	
HNHGO49	5174	573340	1 - 459	15 - 473	AC005191.
HNHGO79	5175	562748	1 - 1013	15 - 1027	AI362442, AW131356, AA533545, AW023111, AA714110, AI251429, AA947369, AI921296, AI338117, AI926706, AA610233, AL109827, AC005189, Z85987, AL049636, AP000096, AL133245, AC005082, AC004013, AC005071, AC005324, AC005484, Z84480, AL023575, AC004797, AP000240, AJ010770, AC005102, I44140, AL031667, AC004149, AC004647,

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HNHGR35	5176	698501	1 - 374	15 - 388	
HNHGR43	5177	918711	1 - 330	15 - 344	
HNHGS34	5178	706671	1 - 422	15 - 436	Z68885, and AL117391.
HNHGT37	5179	708706	1 - 276	15 - 290	
HNHGT51	5180	859962	1 - 354	15 - 368	
HNHGT64	5181	725710	1 - 346	15 - 360	
HNHGT74	5182	765602	1 - 433	15 - 447	
HNHGU19	5183	668693	1 - 407	15 - 421	AA985391, AW007854, AI821306, AA749351, AI159836, AW189113, AC005726, Z86090, AC005088, AF001549, AC007240, AC005562, AF030453, AC002425, AL033527, AL080243, AC005089, AP000066, Z85987, AL022165, AC004882, AC008044, AC004953, AP000347, AC008124, AC005969, AC003950, AC008040, AP000249, AP000210, AP000132, AD000684, U91322, AL022336, AC007425, AL035072, AC002302, Z75407, AL110502, AC005102, AJ251973, Z93023, AL049576, AC006111, AC007192, AC004876, AF067844, AL031295, AL008726, AC004585, AL021528, AC003071, AC009731, Z78730, AC002352, AC005399, AL022238, AC005231, AC010170, AP000501, AC002554, AC007263, and Z93017.
HNHGU41	5184	791822	1 - 487	15 - 501	
HNHGU44	5185	716634	1 - 443	15 - 457	
HNHGU84	5186	783041	1 - 44	15 - 58	
HNHGU89	5187	761837	1 - 434	15 - 448	
HNHGV18	5188	666473	1 - 391	15 - 405	
HNHGV22	5189	674653	1 - 345	15 - 359	
HNHGV29	5190	421819	1 - 310	15 - 324	AL020994.
HNHGV45	5191	754053	1 - 414	15 - 428	
HNHGV91	5192	706695	1 - 388	15 - 402	AL022068.

HNHGX33	5193	496224	1 - 315	15 - 329	AP000271, AP000104, and AF042089.
HNHGX40	5194	687120	1 - 344	15 - 358	
HNHGX41	5195	711657	1 - 650	15 - 664	
HNHGX52	5196	727175	1 - 425	15 - 439	
HNHGX55	5197	683523	1 - 296	15 - 310	
HNHGX83	5198	781196	1 - 550	15 - 564	AC006079.
HNHGY13	5199	657253	1 - 397	15 - 411	AL031732.
HNHGY17	5200	663921	1 - 405	15 - 419	
HNHGY18	5201	859951	1 - 409	15 - 423	
HNHGY19	5202	835531	1 - 422	15 - 436	
HNHGY26	5203	859949	1 - 438	15 - 452	
HNHGY29	5204	690666	1 - 429	15 - 443	L34981, Z68275, AL117391, and L33995.
HNHGY42	5205	713797	1 - 409	15 - 423	
HNHGY47	5206	720360	1 - 400	15 - 414	T02826.
HNHGY79	5207	775209	1 - 405	15 - 419	
HNHGY86	5208	785516	1 - 238	15 - 252	
HNHGY91	5209	840129	1 - 419	15 - 433	
HNHGX36	5210	708131	1 - 71	15 - 85	
HNHGX63	5211	742594	1 - 522	15 - 536	
HNHHA21	5212	496227	1 - 374	15 - 388	
HNHHA32	5213	669915	1 - 328	15 - 342	AC004819.
HNHHA37	5214	708709	1 - 188	15 - 202	
HNHHA68	5215	753047	1 - 613	15 - 627	
HNHHA91	5216	790198	1 - 271	15 - 285	
HNHHA11	5217	964993	1 - 147	15 - 161	
HNHHA12	5218	970719	1 - 363	15 - 377	AL136297.
HNHHA24	5219	677224	1 - 351	15 - 365	AW088875, AW090733, AW089149, AI241940, AI364268, R41807, H06383, AW016452, AA598689, AI863108, AA599060, AI091148, AI693507, AI424991, and Z38240.
HNHHA64	5220	702697	1 - 766	15 - 780	N90568, AI554312, AP000365, and AP000548.
HNHHA12	5221	967088	1 - 290	15 - 304	
HNHHA17	5222	860117	1 - 318	15 - 332	
HNHHA29	5223	713800	1 - 359	15 - 373	AA663387, and AA679164.
HNHHA33	5224	699291	1 - 172	15 - 186	AL080239.
HNHHA36	5225	707340	1 - 218	15 - 232	
HNHHA46	5226	719068	1 - 240	15 - 254	
HNHHA58	5227	736069	1 - 227	15 - 241	

HNHHC83	5228	781197	1 - 425	15 - 439	
HNHHD35	5229	707338	1 - 423	15 - 437	
HNHHD61	5230	741837	1 - 405	15 - 419	
HNHHD67	5231	751663	1 - 305	15 - 319	
HNHHD82	5232	779893	1 - 419	15 - 433	
HNHHE07	5233	953408	1 - 364	15 - 378	
HNHHE48	5234	630223	1 - 307	15 - 321	
HNHHE63	5235	745100	1 - 281	15 - 295	
HNHHE80	5236	774041	1 - 301	15 - 315	AL079342.
HNHHF01	5237	916546	1 - 306	15 - 320	
HNHHF33	5238	698502	1 - 249	15 - 263	
HNHHF51	5239	698490	1 - 384	15 - 398	
HNHHF56	5240	496204	1 - 349	15 - 363	AC006427.
HNHHF58	5241	859946	1 - 419	15 - 433	
HNHHF63	5242	745095	1 - 361	15 - 375	
HNHHF79	5243	775205	1 - 421	15 - 435	<p>AI287766, AI124798, AA535216, AA715173, AA715075, AA829056, H50970, AI783911, AI560085, AI583532, AI754286, AA350886, AA598731, AW438850, AW438662, AW302048, AA568314, AA828844, Z97054, AC005874, AF134471, U96629, AL024507, AC007056, AP000352, D87675, AL109798, AC009510, AL133500, AC009946, AC002302, AL022726, AL034549, AC005089, AL049569, U95742, AC005488, AP000511, AC007216, AC007199, AC005037, AC012085, AF001550, AF205588, AL008721, AP000108, AP000040, AC004554, AL034548, AP000030, AC008372, AP000116, AC003051, AC005899, AC006449, AP000089, AC010209, AC006312, AC004522, AL109758, AC007151, AC003665, AC004797, AC009516, AC016027, U63630, AC006079, AL031427, AC002492, AC004927, AF030453, AC016830, AC008072, AC005088, AC005377, Z83844, AC007637, AL035652, Z82194, AC007450, AC002477, AC006014, AC004983, AC004895, AC002463, AC003007, AC000134, Z85986, AC002476, AP000501, AC005952, AC002352, AL139054, AF091512, AC004686, AL035420, AP000101, AL133245, AC007314, AC008394, AF053356, AF124731, AL132642, AC004675, AC004662, AC005871, U91321, AE000658, AC005695, AL031737, AP000115, AL022302, AC007263, AC006013, AC003687, AC005191, Z95114, AC005632, AC003036, AC007227, AP000694, AC004638, AP000952, AF195658, AF088219, AC004834, AL031281, AC007283, AC005484, AC007226, AC005224, AL031985, AC004966, AC006536, AC004765, AC002554, AP000085, AC005187, AC004796, AC005829, AC005921, AC004031, AC007198, AF067844, AC005972, AC006059, AC006006, AC004777, AC005911, AC004817, AC010206, AF106564, AC005288, AC005553, AC003668, AC020663, AC008044, AC004876, AL022400, AC005520, AC005969, AC006571, Z82215, AL021878, AF118808, AC006509, AJ003147, Z95152,</p>

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HNHHF96	5244	796402	1 - 315	15 - 329	
HNHHG47	5245	720361	1 - 300	15 - 314	
HNHHG50	5246	724411	1 - 399	15 - 413	
HNHHG65	5247	750266	1 - 237	15 - 251	
HNHHH13	5248	657251	1 - 254	15 - 268	
HNHHH42	5249	713796	1 - 357	15 - 371	
HNHHH57	5250	734793	1 - 382	15 - 396	AL678676, AL821937, AL754286, W45073, H05449, C75526, AA287259, C75403, AF001549, AC006101, AC006111, AC005736, AL031230, AC004703, AC005399, AC006449, AC007731, Z93023, AC005500, AL022476, AC005576, AC004030, AL132777, U62293, U63721, AC004878, AC006515, AL024498, AC003109, AC007564, Z95114, AC005089, AC006130, AC003962, AL031228, AC005037, AC005180, AL049694, AL049830, AC005829, AL133500, AC006312, AC005288, Z93930, AC005537, AC004889, AC003012, U91318, AC004887, AC007384, AL022336, AL049776, AC004895, AL139054, AL121603, AP000133, AF111168, AL035086, AC005071, AL246003, AC006960, AL121658, AC004832, AF003528, AP000512, AF031076, AC004859, L44140, AC006241, AC006030, AF067844, AC005015, AL080243, AC005914, AC002316, AF118808, AL020997, AC005520, AL021391, AP000300, AF031078, AL121653, AC005562, AL031432, AF030876, AC005911, AL022721, AL024507, AP000694, AF064861, AC004491, AC005088, AL079342, AC005206, AP000355, AC005280, AF205588, AL031295, AC007363, AC005412, AC005094, AP000045, AP000113, AP000116, AC004216, AC004408, AC005667, AC005516, AL008718, AL023284, AC004638, AP000555, AC007057, AL049872, AL031905, AC005358, AC006417, AC006017, AC005971, AC006071, AC004098, AC004967, and AL133445.
HNHHI10	5251	964659	1 - 227	15 - 241	
HNHHI28	5252	859941	1 - 415	15 - 429	Z97205.
HNHHI34	5253	706699	1 - 400	15 - 414	AL109657.
HNHHI36	5254	708132	1 - 427	15 - 441	AL580362, AA676819, AA677954, AL831913, AL628458, and AL031123.

HNHHI65	5255	750263	1 - 374	15 - 388	<p> AW238278, AL048925, AA454177, AW023672, AA493708, ALI19691, AA101689, N23896, AI567076, AA515909, R24887, AI801482, AI246796, AA579179, AI281881, AW407578, AW341900, AW270270, AA503473, AI371249, AA613232, AI733856, AW062724, AW167372, AW131249, AW419262, AA630362, AW072587, AA507824, AI860020, AI061313, AI355206, AA559241, AI184226, AA483223, AA774780, AA098993, AA720702, AA578481, AI589230, AA587991, AA642060, AI056177, AI279417, F34498, AI279037, AI933714, AI148277, AI733755, AA326441, AA614163, AA613345, AA446657, AW162489, AA805846, AA719073, R77905, AA847499, AW406162, AI120687, AI122023, AC007676, AI021154, AC007684, AC006285, AP000556, AC004167, AC006480, AL022313, AL049553, AC012627, AC006538, AC004526, Z15025, AL121757, AL121603, AL133371, AC002070, AL035089, AL096791, AC006312, AC000026, AL035079, AC005358, AC003029, AC004638, Z95152, AC002059, AL031667, AC005736, AC005089, AC007537, AC003046, AC000353, AL020997, Z74739, AC004020, AC007055, AC004817, AL008718, AP000151, AP000090, AL109628, AC007226, AC007277, AJ003147, Z75887, AP001038, AL008583, AC000003, AC002525, AL135744, AL021808, AP000962, AL035249, AC005667, AC007066, AC007546, AL049713, U07563, AL049776, AC006511, AC004583, AP000134, AP000212, AC005102, AC005071, AC005940, AL031431, AC005520, U62317, AC005971, AL021392, AC005164, AC005921, AC004024, AC010170, AC005375, AC007014, L78833, AL080317, AP000260, AL035458, AC005288, AC005808, AL049636, X16873, AB023049, AC005562, AL008582, AC005411, AL049830, AC000090, U95740, AC005548, AL080242, AC006006, AF196969, AL035659, AF053356, AP000281, AC000081, AC006241, AC005081, AC004991, AC004598, AC004019, AC007191, AF001550, AL035450, AC005015, AC005837, AF165926, AC005409, D87675, AC004675, AC006077, AC002544, AC007993, Z93017, AP000252, Z83843, AP000036, AC004605, AP000039, AL031733, AC002310, AF196972, AC005839, AF111168, AC005527, AP000302, AC002365, AC006515, AL031390, L78751, AL031673, AC005694, AL109865, AP000557, AC007021, AC008115, AF088219, AC007227, AC002288, AC007371, AC006252, AC003682, AC005585, AC004875, Z99755, AC004887, AC004655, AC006548, AC005193, AC006013, AL035420, AC005484, AC002470, AC004386, AC006441, AC004913, AL132712, AL022318, AC004079, AC005479, AC006539, AL080243, AL031296, AC006251, AL022320, AC002565, AC004878, AC003982, AL031282, AP000501, AB003151, AL121658, AF139813, AP000115, Z85996, AP001053, AC007664, AF031078, AC000379, AC007917, AL034549, AC007510, AC004021, AC003081, AL021918, AC005913, AF134726, AC004408, AF030876, AC004381, AC005046, AC006115, AC006984, AC007292, AC002036, AC008101, AC004112, AC003663, AC002119, AC006130, AC005291, AC006101, AC006315, U85195, AC009044, AC005914, AF003626, AL021807, AF124523, AC005202, AC004797, AC002477, AP001054, AL049539, AP000356, AC016027, AC006139, AC002395, AC005529, AC005841, AC004972, AC005535, AL031589, AL034343, AC005284, AL022329, and AI246003. </p>
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HNHH172	5256	510619	1 - 716	15 - 730	AA434086.
HNHHK06	5257	935517	1 - 418	15 - 432	AC005280, AL109628, AC006006, and AC004686.
HNHHK39	5258	937598	1 - 400	15 - 414	
HNHHK46	5259	718081	1 - 435	15 - 449	
HNHHK62	5260	741835	1 - 214	15 - 228	
HNHHK74	5261	765601	1 - 324	15 - 338	
HNHHK84	5262	781980	1 - 358	15 - 372	
HNHHK93	5263	792326	1 - 548	15 - 562	T12412, Z73967, and AL031985.
HNHHL22	5264	674617	1 - 321	15 - 335	
HNHHL70	5265	757201	1 - 339	15 - 353	
HNHHL74	5266	765598	1 - 212	15 - 226	AA657808, AA742850, AC006561, AC004751, AL021367, and AC005060.
HNHHL92	5267	756587	1 - 249	15 - 263	AC002288, AC002350, AC005076, AC007052, and AL049569.
HNHHM10	5268	964656	1 - 324	15 - 338	
HNHHM17	5269	661964	1 - 153	15 - 167	
HNHHM25	5270	678144	1 - 272	15 - 286	
HNHHM28	5271	575451	1 - 450	15 - 464	AI860558, AI963420, AI683827, AA342712, H74211, AA497013, AA342852, H73133, AA587516, H91062, AL120897, AA176978, AA847499, AA808173, AI243789, AI284045, AA477103, AI216799, AI471691, F09180, AA653618, AA488746, AA491882, T06828, AA224902, AI357288, AC005899, AC002492, AC009247, D87675, Z95152, AC004257, AL031282, AC009516, AC005779, AL022323, Z98036, AC003684, AC002394, AC005399, Z83840, AC007664, AC007263, AC004491, AF111168, AJ006996, AC004887, AC005736, AC002404, AL031428, AC005632, AC006023, AC002119, AC006538, AC005914, AC004024, AC003109, AP000356, Z93016, AJ246003, AP000097, AC006973, AC006111, AL122020, AC007371, AL021394, AC006116, AL050348, AC003029, AC004797, AL049869, AC005209, AC007546, AL022326, AL008582, AL078477, AL049776, AC006312, AC006285, AC005907, AC002350, AC007225, AC004019, AL035683, U95742, AC006487, AL121655, U91326, AC006064, AC006120, AC005067, AP000557, AP000011, AL096791, Z69917, AC004827, AC005785, AC005562, AC007731, AC004890, AC003957, AC006014, AC005089, AC000393, AC007216, AC004668, Z95114, AC004686, AL008629, AC002546, AC003663, AC005324, AF200465, AP000505, AC004148, AC006480, AD000092, AC005962, AL034379, Z15025, AL031577, AC004675, AL009181, AL133243, AP000201, AC006468, U91318, AC007748, AL031311, AC005822, AL133448, Z86090, AL109654, AC005411, AL050307, AF129756, AL008729, AL021807, AC005306, AF205588, AL121658, AC006360, AC000134, AC007052, Z68756, AC000052, AC004999, AC004819, AL031594, U80017, AC004771, AC006050, AL078634, AC004552, AL049830, AC004938, AC004757, AC004905, AL049759, AC004448, Z70280, AF042484, AL079340, AC007192, AC005480, AL109628, AC005821, AF088219,

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HNHHM35	5272	706667	1 - 320	15 - 334	Z93021, AC007446, and AC006314.
HNHHM37	5273	708715	1 - 147	15 - 161	
HNHHM52	5274	727166	1 - 290	15 - 304	
HNHHM55	5275	694373	1 - 528	15 - 542	AA082778, AL1708218, and AP001058.
HNHHM70	5276	757202	1 - 245	15 - 259	
HNHHM80	5277	880776	1 - 319	15 - 333	
HNHHN03	5278	920129	1 - 452	15 - 466	
HNHHN07	5279	953393	1 - 347	15 - 361	H74218, AW023111, AA936718, AA364006, AI440117, H29914, AA581927, AA523695, AI266028, AA486542, AA788592, AI493583, AA018923, AW304536, AI310464, AA772704, H73902, AA502207, AA507684, AI912401, AA610233, AI368732, AL133246, AL117344, AC004491, AL031659, AL049631, AC003071, AC005303, AL035455, Z98749, AL022396, AC005823, AL031904, AC004686, AC004976, AL035496, AP000257, Z82176, AC002126, AC003684, AL031311, AC018769, AC007066, AL118516, AP000098, AC007878, AL049569, AC006509, AC006449, AC005940, AC005082, AC003029, AP000556, AL078581, AC002470, Z93241, AL080243, Z85996, AL135744, AC004622, AC004883, AC006581, AC007687, AC020663, AL121653, AC005005, AC004815, AP000194, U91321, Z98304, AC005057, AL133243, AC005874, AF134471, Z84476, AF124523, AC004983, AL139054, AP000555, AC004991, Z83844, AC009247, AC005089, U96629, AC009509, AC002477, AP000022, AC007450, AL022398, Z84474, AF196971, AL031673, AC005914, AF047825, Z93784, AC004525, AC004033, AL022324, AL022323, AP000163, AL049843, AC004967, AC003007, AC007919, AC005231, AC004134, AL034420, AC002040, AC007773, AL121825, AC007637, AL049776, AC002045, AC008040, AC007541, AC006236, AC007371, AC002300, AP000115, AC006077, U80017, U96409, AC002301, AL035457, L44140, AC005274, AC006205, AC005377, AD000092, AC004878, AC005632, AC007731, AC005829, AC004859, AC005031, AP000113, AP000045, AC004834, Z82215, AC006455, AF111168, AC006312, AC008033, AL049709, AC005899, AC002072, AC005378, AL031587, AL031291, AL031230, M55987, AL035086, AL022318, AL049849, AC010206, U29874, AC007051, AL021391, AC000035, AL049869, M89651, AC005412, AC005666, AF038458, AC007386, AC003051, AF036405, AC004922, AC005102, AC004914, Z83838, AC004408, AL109865, AL031432, AC006388, AC002395, AL031680, AC004813, AP000966, AF165926, AC006071, AP000313, AF053356, AC004382,

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HNHHN11	5280	964657	1 - 337	15 - 351	
HNHHN19	5281	668681	1 - 333	15 - 347	
HNHHN31	5282	698035	1 - 104	15 - 118	
HNHHN62	5283	745700	1 - 312	15 - 326	
HNHHN93	5284	751659	1 - 345	15 - 359	AI733700, AI733701, AI191504, AI191500, AI792423, and AI761827.
HNHHO08	5285	953398	1 - 339	15 - 353	AL049845.
HNHHO15	5286	424836	1 - 331	15 - 345	AA345594, AI884861, AA724224, AA225100, R76290, AI671077, AA452569, AA808847, F34170, AA344768, AI537800, M78137, T94072, AA857812, AW263688, AI300818, AI310992, AA358258, H78034, AI469392, H72642, AI648514, AA668475, R06740, AA078384, AA679353, AI469140, AI199816, H44537, AL039057, AA196552, R96373, AA020882, AA313075, AA846923, AA809089, AA856815, R01209, AI419337, AI361090, AA677848, AA321010, AA705075, T08386, AL047645, AI288033, AI421950, AI368873, AA354324, AI890971, AI205783, AI859906, R70884, AW089625, AI088127, AW026305, AI285493, AA938390, AI682727, AA584862, AA630122, AI255004, AI255015, AA219349, AA230075, AA604515, T07779, AA581525, AI624800, AI052194, AI570805, AA581927, R70883, AA339749, AI037907, AA992610, AW337992, AA112924, AI538236, AA772704, AA838192, AA325742, AA324088, AW019964, AA468975, AA326330, AA093114, AI253376, AW192402, AA458534, AA197019, AI905770, AI493583, AA515631, AA629888, AI751753, AI613465, AA156551, AI678812, AI280574, AA890060, AI860535, AI889426, R32162, AI376454, H38769, AI734155, AP000473, AC006236, AC008975, AC007556, AC005553, AC031291, AL035405, AC007546, AC007684, AL133500, AL034421, AC004829, AC007270, AL049569, AL049643, AC004655, AC002310, AL031284, AP000462, AC022517, AF060368, AB017654, AC006930, U82668, U73169, AC006323, AC004893, AL132668, AL049838, AL008721, AC004983, Y10196, AC004067, AC004915, AC004878, AC006014, AC005488, AL049709, U52112, AC004531, AC004601, AC005858, AL008712, AC005288, AC007686, AF111169, AC004230, AC004973, AL033375, AF030453, AC005088, AC006480, AP000699, AL031728, AC005005, AC005863, AP000501, AL078638, AP000227, AP000087, AL078581, AC005061, AC004941, AC005344, AL031589, U34879, AC004084, AL022398, AC003108, AL035464, AJ010598, AL121578, AC010168, AC005036, AC005808, AC005972, AF118808, AC004143, AL031905, AC006262, Z85987, Z95115, AC004844, AL096791, AC007263, AC004099, AC009509, AL034429, AC005480, AF042091, Z97053, AF134726, AC004216, AC006241, AL049563, AC005684, AP000694,

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HNHHO49	5287	722991	1 - 340	15 - 354	AA826320, AL569363, AA410834, AL064955, AA715814, AA657726, AA508744, AW157667, AA912287, AF792566, AC004595, AC007225, AL035659, AC004805, AC005874, AF134471, AL049714, AL035089, Z84466, AL080243, AC004534, AC005358, AC002544, Z85986, AC000403, AL031588, X99832, AC007216, AC005027, AC005632, AL031591, AL049759, U52112, AC007011, AC005529, AC004551, U95742, AC004382, AC006449, AC002456, AL009181, AC004472, AC004882, AC004983, AC006117, AC006453, AC002425, Z83822, Z83845, AC002543, AF047825, AL031005, U47924, AC009479, AC002067, AP000493, AL031767, AC005606, AC003104, AC004876, AC000085, AC005666, Z99129, AC007688, AL035460, AC002468, U91321, AL049843, AL033527, AC009248, AC003098, AP000510, AC005154, AC004832, U62317, AC002349, AC005682, AC004894, AL020997, Z98044, Z98051, AC009516, AF165926, AL117258, AL031589, AC004216, AP000240, AC005231, AC005193, Z93244, AC005071, AC004859, AC007055, AC007298, AB023048, AC006013, AC004966, AL049766, AC004196, AC005304, AC002492, AC006088, AC006441, AL034555, AC002126, AC004598, AC002064, AL049869, AL021154, AC005568, AL031283, L29074, AL049631, AL031602, AL031133, AL035458, AL133448, AL049779, AF037338, AC004821, AP000558, AC005225, and AC009731.
HNHHO66	5288	727167	1 - 325	15 - 339	
HNHHO79	5289	774038	1 - 311	15 - 325	
HNHHO02	5290	920120	1 - 329	15 - 343	
HNHHO04	5291	935501	1 - 300	15 - 314	
HNHHO16	5292	661962	1 - 343	15 - 357	AC005596.

HNHHR04	5293	935502	1 - 341	15 - 355	
HNHHR46	5294	720358	1 - 334	15 - 348	
HNHHR61	5295	741830	1 - 311	15 - 325	AL022396.
HNHHR93	5296	775194	1 - 399	15 - 413	
HNHHS46	5297	956186	1 - 671	15 - 685	AA553367, AW452948, AA828734, and AI912090.
HNHHS74	5298	765584	1 - 408	15 - 422	AA586573, AC005036, AL021026, AC003951, AL034551, Z83820, AC002463, Z68325, AC004062, AC004949, and AP000082.
HNHHS76	5299	788913	1 - 300	15 - 314	AI541356, R29657, AA585098, T18597, AA585325, R45895, Z32822, AA585101, D53161, R28735, R29445, D57491, C15406, AI557740, Z28355, D59751, AA585155, AI557262, AI557864, R28892, D61185, Z32887, C15069, AI526140, AI541365, AI525500, AA170832, AA585439, R28965, D59436, AA585378, AA585329, R29218, D60844, AI526184, AI526078, AI557731, AA585476, D60765, D54897, R28967, R28895, AI557727, AI541205, AI541535, AI546971, C16315, AI525556, AI525316, AI541383, AA283326, AI541517, AI547250, AI546875, AI557763, D61254, AI557734, D53472, AI546999, AI526016, AI557787, C16293, AI541013, AI547039, AI557807, D55233, AI525306, D53447, C16300, AI541374, C16294, C15120, AI557084, D52835, AA585356, AI524945, AI541346, C16292, AI557718, AI546945, AI525431, AI557155, AI547196, C15762, AI557408, AI526191, AI557758, C16305, AI541523, Z30131, R29179, AI525339, AI541034, AI526194, C15737, AI557809, AI546921, AI541307, AI546996, AI540967, AI546891, AI547006, AI540903, AI557602, AI540974, D60730, C16296, AI526109, Z33559, R29177, AI525320, AI557279, AI547202, AI526176, D57186, AI541321, AA585453, AI526024, R29262, AI557808, AI526112, R29172, AI526158, D51433, C14208, AI541527, AI535639, AI535660, AI536138, D54850, AA585430, AI546829, AI557533, AI526113, AI541510, C16290, AI525856, AI557039, AI526195, D59458, AI556967, T19407, AI547137, AI526073, AI526180, AI557264, AI546831, T41289, Z36724, AI541422, AI525656, AI526117, AA174170, AI525332, AI526187, AI525286, AA514191, AA585117, AI541515, AI547189, AI239433, AI540920, T41329, AI541492, AI524904, AI524890, AI557799, AI524891, AI546855, AI541027, AI541345, AI557041, AI557238, C14322, AI557852, AI546828, AI541506, AI541415, AI557082, AA585434, AI526205, AI557786, C14391, AI541402, AI525114, AA585440, AI546901, AI557317, AI557285, C14723, AI525168, AI526146, AC005913, AR038762, AR038855, AR062871, A25909, Y09813, X82786, Z32836, AR054723, AL021395, X81969, AJ244005, Y16359, AF082186, D78345, D50010, D13509, AJ244004, A20702, AR062872, AR062873, A20700, A43189, A43188, AR017907, AJ244003, AC002563, X55486, X76012, AC007308, AC002470, AL031293, AC002430, and AC007384.
HNHHS79	5300	775192	1 - 359	15 - 373	
HNHHT35	5301	707342	1 - 392	15 - 406	
HNHHT55	5302	465438	1 - 418	15 - 432	AC000093.
HNHHT70	5303	783033	1 - 180	15 - 194	AI274692, T40452, F33126, AA076426, N25415, AA321595, AA975915, AI273675, AI268564,

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HNHHU46	5304	465395	1 - 346	15 - 360	AI950671, AA586656, F03525, AA829565, AI611739, AC005837, AC006285, AL121595, AL050317, AC002527, AC006088, AC005488, AC005318, AC002996, AC004942, AC005841, AF165926, AC005209, AC016025, AC005368, AC007151, AC005971, Z83840, AC005914, AC002477, AF205588, AL133382, AL049766, AP000347, AL121652, AF053356, AC006011, Z82244, AL008721, AL022345, AL049776, AL133163, AL133245, AL050318, Z99716, AL049712, AC003109, Z97053, AC006468, AC008372, AC004821, AC004408, AC005924, AL034343, AC005899, AC004854, AC005765, AC002369, AL021808, AP000692, AL109798, AL049829, AC004601, AL049759, AC006449, AC005933, AL023807, AC004966, AC005902, AC004019, AC002352, AC016026, Z83826, AC005482, AC004526, AL034379, AL031283, AC005529, and Z95114.
HNHHW01	5305	859935	1 - 407	15 - 421	Z98885.
HNHHW32	5306	699255	1 - 272	15 - 286	
HNHHW58	5307	739288	1 - 228	15 - 242	AA824650, AA663908, AI302974, W89152, AW338697, AL035400, AC005912, M63543, M63544, AC007227, AC004841, AC004263, AC007327, AL023807, AC007993, AC006430, AC005764, AF141309, and AC004408.
HNHHW61	5308	742071	1 - 145	15 - 159	
HNHHW73	5309	765588	1 - 322	15 - 336	
HNHIA02	5310	920094	1 - 482	15 - 496	AL119119, C06015, T11417, D59503, D81111, D80064, C14227, D58246, C14389, D80195, AW360811, D59502, AW177440, D51799, D80164, AW178893, C15076, D81026, D80258, AW375405, D59467, C14407, D59275, D58283, D58101, D80227, D80022, D81030, D80166, D59859, C14331, D80193, D59619, D80210, D80391, D80240, D80045, D51423, D59787, D80038, AA305578, D80253, D80043, D80212, D80196, AW366296, D80188, AW360844

					AW360817, D80219, D57483, D59610, D59927, AA514184, D80378, AA514188, D59889, D80024, D80302, AI557774, D80439, AW177501, D80269, AW177511, C14298, D80247, D50979, D80522, AA305409, D80251, D80168, D80241, D80014, AI557751, D80268, D80366, D51022, C14429, D80248, D50995, C14014, D59695, D51060, F13647, AW360841, D51103, D80133, AA514186, D80157, AW179328, AW352117, D52291, D59653, AW360834, AI535686, D45260, AW375406, D51759, D59627, AW378534, C03092, T03116, AA809122, AW179332, AW377672, AW378539, D80949, AW179023, AW178905, D51079, H67866, T03269, AI525923, AW377671, H67854, AW378533, C05695, C75259, AW378532, AW369651, AW352171, AW178907, D59317, AW352170, AI525920, AW177505, D59373, AW178906, D51250, AW377676, AW179024, AW178775, D59551, AI525917, T48593, AW177731, AW178909, AW177456, C14973, AW378528, AW178762, AW179019, C14344, D51221, AW179329, AW179018, AW178980, D59474, Z21582, AW178754, D60010, D60214, AW179020, AW352158, AI525227, AW178908, C14046, AI910186, AW177733, D45273, C14957, AI525235, AW179012, AI525925, AW352120, AW378525, AI525242, AW179004, AI525215, AW177734, AW367950, D51213, AW178986, AW178914, AW178774, AW176467, T02868, D59976, AI525912, AA285331, C14077, AW178781, C16955, AW378542, C05763, Z33452, T02974, AI525237, AW179009, H67858, AI525222, AW178911, AI525928, AW378543, AI535959, AW378540, AW177722, AW352163, C13958, AW360855, AI535665, T03048, AW177728, C04682, D51053, D31458, Z30160, N66429, D80314, D80228, AC000378, A82595, AR060385, A84916, AB028859, AJ132110, A62300, A62298, AB002449, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, AR016808, I14842, AR054175, Y17188, D26022, AR016514, X67155, A67220, Y17187, AR060138, Y12724, D89785, A45456, A94995, A26615, AR052274, A43192, A63261, A43190, AR038669, A78862, D34614, A70867, AR066488, A25909, Y09669, AR066487, AR062872, A30438, AR008277, AR008281, AR008443, I82448, AR016691, AR016690, U46128, D88547, I79511, A64136, A68321, X82626, D50010, AR008408, X68127, X64588, AR025207, AR060133, AF123263, and AR032065.
HNHIA16	5311	661931	1 - 411	15 - 425	
HNHIA20	5312	669685	1 - 408	15 - 422	AA601673, AW088224, AI453383, AC007406, AL079340, AC020663, AC007707, Z95114, AC007934, AC005667, AP000557, AP000359, AP000692, AC003689, AP000326, AC004003, AC005071, L47234, AP000169, AP000054, AP000122, and AL132712.
HNHIA34	5313	706675	1 - 192	15 - 206	AF110326, and AC004559.
HNHIA58	5314	736046	1 - 378	15 - 392	AL078614, and AL109748.
HNHIA64	5315	745861	1 - 437	15 - 451	AI355414, AA228442, AW192599, AI569100, AI754567, AI038304, AI249688, AI285696, AA605056, AI580707, AI570943, AA262752, AA779783, AA904211, AA297208, AI077941, AI755214, T03576, AA601218, AI049701, AA828834, AA838091, AW131356, AA689351, AA127222, AI039257, AA508036, AA525293, AW070532, AA343523, AA569402, AA369727, AA228979, AA229823, AA558404, AW081610, AI080307, AC005841, AC005071, AL022721,

HNHIA73 HNHIA94 HNHIA95	5316	559344	1 - 258	15 - 272	AC004217, AC005365, AL079295, AL049747, AF109907, AL049869, Z81369, AC003950, AL008725, AL080317, AC007993, AC001083, AC005531, AL109628, AJ246003, AC005180, AC005618, AC002312, AF196969, AF111168, AC005535, AC005220, U58668, AL031595, AC002400, AL035458, AC004596, Z83826, AL031848, AC004222, AC004223, AC004878, AL008582, AC006487, AL034420, AC005844, AC007688, Z83847, AC006544, AC005277, AC007225, AC005911, AC005229, AC004148, AC005500, AC005486, AC005300, AC002470, AC007227, AP000692, AC005003, Y14768, AF207550, AL049569, AC005821, AC005057, AP000103, AC005800, AL035405, AL022315, AL079304, AP000087, AP000505, AC005377, AL117694, AC002094, AC003983, Z94056, AC005288, Z86061, AC004638, AL109613, AC004491, AF031078, AC005274, AF134726, AC005081, AC005082, AL031427, AC007283, AC005261, AL080243, AC005089, AC005529, AF196972, AC005399, AP000553, U91326, AC003109, AF030876, AL121658, Z98048, AC007226, AC007308, AC007421, AL121653, AC002430, AL035249, AC002310, AC006101, AC005015, AC004797, AF129756, AE000658, AC011456, AC005921, AL109798, AC005940, AC005484, AC005231, AC005412, AC005871, AC006064, AL031587, AC006077, AC007384, AC009509, AC004477, AL109952, AC006948, AP000117, AL022334, AC005252, AL133246, AC006468, AC005578, AC006006, AL049872, AC004883, Z98044, Z99716, AC007546, AL022322, AC004033, AC004475, Z81359, AL049843, U07563, AC004000, Z95116, AL031432, AC004812, AC006571, AC005157, AC004685, AC007731, AP000350, Z98304, AC005031, AL031133, AL022326, U91321, U80459, AC004832, AL031659, AC002477, AC006121, AL121652, AL035071, AC004494, AC005387, AL049766, AC004858, AF196971, AC000378, AP000689, AC004693, AL078584, AC008072, AC007551, AC011362, AC000353, Z99128, AP000045, AC005881, AC007676, U07562, Z70288, AL050306, AC007842, Z83844, AC004813, AL023575, AL080242, AC007774, AC005702, AC006953, AL133396, AC005971, AC002351, AL078638, AC005600, AC005668, AC005355, AC002554, AC002316, AC022517, AC002369, AC002395, AL050341, D87675, AC006285, AC003663, AC006315, AC004125, AL139054, AC004922, AC004150, and AC004531.
	5317	970720	1 - 295	15 - 309	
	5318	908419	1 - 434	15 - 448	
HNHIB22 HNHIB56 HNHIB77 HNHIB94 HNHIC39	5319	967038	1 - 348	15 - 362	R93353, AA447817, AA574189, AW139964, W81697, A1887846, AA831618, AA677404, A1124782, AA447667, AA765804, AC008173, AF124523, AF146367, AF118808, Z83841, AC002464, AC005820, AC006048, AC004074, AP000509, D84394, AL096775, AL109954, AC007359, AC008175, AL096801, and AC006313.
	5320	734763	1 - 318	15 - 332	
	5321	781214	1 - 396	15 - 410	
HNHIB94 HNHIC39	5322	793210	1 - 338	15 - 352	AA663964, and AL035106.
	5323	705375	1 - 410	15 - 424	

HNHIC46	5324	842003	1 - 441	15 - 455	
HNHIC96	5325	779876	1 - 371	15 - 385	
HNHID29	5326	690646	1 - 391	15 - 405	
HNHID53	5327	727151	1 - 395	15 - 409	
HNHID55	5328	731761	1 - 438	15 - 452	AA169263, AA610219, N23896, AI053911, AA526630, AW074382, AA747469, AA719510, AA532882, AI537772, AI460009, AA961035, AA804925, AA378690, AA380354, AA829073, T60681, AA564865, AW191886, AI678368, AA526856, AA557883, AW021583, AA807583, AA679154, AA613624, AA533944, AI802801, AI720058, AA706291, AW410354, AA137013, AA662976, AA353907, AI383057, AA338544, AI791150, AA954924, AI254779, AA847515, AA599550, AA807845, AA127426, AA551105, AA630672, AA613232, AW148507, AI445088, R58559, AI249683, AA659535, AI047349, AW069572, AI037632, AF034194, AF037630, AA531580, C75192, AI267818, AA722297, AI654738, AW168520, AI811563, AA331301, AI079709, AI783549, AA948728, AA640277, AI120986, AA136577, AA011026, AA604840, AA864261, AA668387, AW082559, AI086830, AA664942, AI138329, AC005668, AC005722, AC007161, AC007308, AC004706, AI133382, Z84489, AC002470, AI096762, Z84487, AC006222, AC010209, AP000252, AC002538, AC006023, AP000134, AP000212, AC004522, AP000022, AC004801, AI079304, AC005288, AF207955, AC004967, AI022312, AC006353, AC006013, AC005796, AR036572, U91328, AC004694, AC005593, AI008707, AI021397, Z84469, AC006144, AC004263, AC000025, AF196969, AC005519, AC005527, Z97632, AC008012, AI050348, AI080243, AC006079, AC005340, AC005953, AC007136, AC004134, AC007845, AC006974, AF196970, AI031685, AC005335, AC007868, AC005529, AC005594, AC005280, AC004815, AC006275, AC009247, AC007066, AI133355, AI022069, AC007463, AC003009, AP000159, AP000017, AC000353, AI022320, AC003669, Z97183, AI109963, AF111167, AC002350, AP000359, AC002369, AC004517, Z82901, AC006211, AI135960, AI131016, AI031846, AC004526, U89335, AI080241, AI133445, AC007226, AC005940, AC004864, AC005531, AC005932, AI031721, AB014077, Z93017, AC005495, AI008723, AC004212, AB023050, AP000512, AC005226, AC004841, AP000164, AF121781, AI022165, UI6812, AC007193, AP000113, AC004558, AC005666, AC004960, AC004832, AC002997, AI031229, AC004938, AI139054, AC004656, AC002070, AC009516, AC002299, AC004209, AC005736, AC004019, AP000076, AI031295, AC004934, AC006130, AC004097, Z83838, AC007565, Z95152, AP000964, AC005756, AI022315, AC004410, AC007435, Z85999, AC002105, AC005808, AC006449, AC004000, AF207550, U73169, AP000245, AC005837, AI035422, AI133448, AP000300, AI034548, AC016026, AI034549, AI008726, AI133371, AC004686, AC000094, AI096701, AF038458, AC004486, AI022721, AC002310, AI031311, AC010197, AF186194, Z93783, AI031296, AC006241, AI078476, AC002492, AF039907, AP000553, AI020997, AC005224, Z11900, AI096774, AC005255, AC005360, AF227510, U91322, AC000364, AP000514, AP000510, AP000556, AP000557, AC003007, AC007041,

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HNHID79	5329	774044	1 - 445	15 - 459	
HNHIE75	5330	765385	1 - 403	15 - 417	
HNHIE82	5331	921945	1 - 652	15 - 666	
HNHIG01	5332	916503	1 - 396	15 - 410	AA601335, AC002041, AC006359, AC006352, U91320, and AC007028.
HNHIG13	5333	465404	1 - 315	15 - 329	AL110311, and AL035460.
HNHIG19	5334	668657	1 - 417	15 - 431	AW385577, and AL035652.
HNHIG37	5335	708713	1 - 400	15 - 414	AC005346.
HNHIG68	5336	753025	1 - 398	15 - 412	
HNHIG71	5337	465407	1 - 414	15 - 428	
HNHII23	5338	675262	1 - 311	15 - 325	
HNHII27	5339	681727	1 - 424	15 - 438	
HNHII29	5340	689891	1 - 182	15 - 196	D45273, D80269, D59467, D80227, AA809122, D50995, D51079, D80043, D59275, T11417, D50979, Z21582, D80378, Z33452, C14077, F13647, T03048, T02868, D51423, AI525242, Z30160, H67854, D80188, D80247, D57483, C14331, T02974, D51799, AA514188, AI557774, C14344, D59610, C14407, D59927, AA305720, D80241, D58101, AI525237, AI525917, AI525920, AI525903, AI525238, N66429, AI525907, AI525227, AI525215, AI525969, AI535961, AR008277, AR008281, AB002449, AR016808, AR008278, A84916, I79511, AR054175, AR018138, and AF058696.
HNHII46	5341	720333	1 - 402	15 - 416	AA480792, AI687146, AA594072, AA351003, AA984114, AC002530, AC004637, AL009031, AC002326, AC002352, AC004408, Z70280, Z96104, AL033504, AP000503, AF134726, AC000134, AJ239322, AC005939, AL109847, AC002978, AL118498, AC004019, AL031733, AC008115, AB016897, AF095725, AL109623, AC002546, AC004125, AL139054, AC005859, AC008040, AC000081, AC005512, AP000326, AP000169, AP000054, AP000122, AC006088, Z97832, AL049830, AC000118, AL009178, AC004167, AL009174, AL034423, Z93017, AC007486, AC005881, AL109628, AP000555, AC004084, U79746, AC002477, AC005229, AC002044, AC000353, AC005562, AL020997, AC002072, AL049694, AC005484, AC003043, AC012099, and AL136297.
HNHII58	5342	739290	1 - 343	15 - 357	AL031728.

HNH66	5343	684531	1 - 162	15 - 176	
HNH71	5344	760371	1 - 311	15 - 325	AC005209.
HNH73	5345	765591	1 - 419	15 - 433	AW069227, AW406755, AL041375, AI791659, AI479148, AI365988, AI358229, AI431303, AA502532, AI753365, AI354228, AI521525, AA226584, AI355246, AA573020, AW151541, AW419262, AA482711, AA861959, AI609972, AI754926, AW193265, AA424249, R67701, AA128592, AI912401, AI356440, T29180, AI289505, AI926102, AI084012, F00982, AI431434, AA148489, H79586, AI362552, AA904211, AI471481, AA176605, AI798449, AA015948, AW316969, AA984258, AI244254, AI755214, AA610491, AW084173, AI888468, AI797998, AW341955, AI634187, AA682912, AA846923, AI754105, AA584482, F36273, AA904275, AI569363, AW261996, AA601680, AA642809, AL044858, AC006064, AC004477, AC020663, AC006111, AL035684, AC005488, U85195, AC007376, AE000658, U47924, AP000462, AC005695, AC004834, AB017654, AC005081, AC005257, AL021546, AC002369, AP000557, AL049869, AC004019, AL049872, X55928, AC007993, AC008545, AL008726, AL009181, AP000348, AL022237, AC005037, AF111168, AC002425, AC006449, AL023575, AC005480, AC005041, AC004156, AC005255, AC005231, AC004752, AC007387, AF207550, AL135744, AC006125, AF053356, AC005034, U78027, AC005776, AC007421, AC006952, AC005215, AC004821, AC006512, AP000355, AC002544, AC002395, AD000092, AL035455, AC002310, U95742, AL034379, AC005048, AC003682, AL079295, AL035072, AC002316, AC004812, AC002126, AC005071, AL035089, AC005581, AC004491, AC004496, AC005409, AC004263, AC005971, AL034420, AC002477, AC005330, AC004983, AC005412, AC002492, AL031390, AC004216, AL034417, AL031767, AL022326, AL031311, AL031685, AC005305, AC006014, I51997, AC009516, AB000882, Z98752, AC005057, AP000211, AP000133, AC007785, AC016025, AL133245, AL022323, AC006011, AC004106, AC000075, AC007546, AL021707, AC004887, AL078581, AC000084, AL136295, AC005399, AL109758, AC002314, AL132641, AC005726, AC006112, AL096702, AC002491, AF011889, AL080243, AC007242, AC007298, AP000210, AP000132, AP000115, AL022476, AC007226, AC007216, AC008126, AC007845, Z86090, AL022165, AF045555, Z81369, AC005944, AL031662, Z98048, AC004098, AC005722, AC003029, AC007182, AC005740, AL121934, AC004150, Z92540, U29953, AL132642, AL133353, AC005069, AC006511, AC006315, AC004890, Z84480, AL096701, AC005527, AF109907, AC003982, Z99291, AC004167, AL031680, L44140, AC006139, AC007263, AP000511, AC004253, AC005193, AP000556, AP000552, Z84466, AC006441, AL034548, AL109827, AL050318, AL049831, AL031255, AC006530, AC007240, AC006241, AC004072, AC002347, AC005914, AC005378, AL022327, AC004494, AC005668, AF001550, AL021579, AF031078, AP000248, AL109963, AP000555, AC005519, AP000356, AF155238, AL034555, AP000512, AC006077, AP000045, AP000113, AC005746, Z82180, AL020995, AC003006, AL031005, AC006365, AF030876, AC006071, AC006948, AC002394, AP000501, AC007541, Z99716, AP000354, AL031228, AL031120, AC005516, AL035587, AC004543, AC005225, .

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HNHIH82	5346	779874	1 - 414	15 - 428		AL023653, and AL022162.
HNHIH96	5347	734114	1 - 596	15 - 610		
HNHIR84	5348	775407	1 - 435	15 - 449		AC005137.
HNHIS14	5349	967087	1 - 405	15 - 419		
HNHIV95	5350	795877	1 - 333	15 - 347		
HNHIW13	5351	657249	1 - 390	15 - 404		
HNHIW35	5352	707339	1 - 391	15 - 405		AA121919, N69190, AI079423, AL119438, AI539009, Z99426, Z98051, AL121769, AL096853, AC005839, AC003663, AC002994, AC006077, AL121603, AC005529, AL109628, AC005755, AL021939, AC005726, AC005678, AL031594, AC004263, AC010582, AC005089, Z98745, AC004019, AP000512, AC005914, U85195, AE000658, Z83826, AL035587, AL009181, AC006571, AC007686, AL022345, AC004382, AC006372, AC005004, AL031589, AC002115, AC004955, AL080242, AC008015, AC004383, AC006509, AC004087, AC006505, U96629, AC003682, AF038458, AL049636, AC005803, and AC004967.
HNHKL15	5353	859926	1 - 409	15 - 423		
HNHKL60	5354	739885	1 - 335	15 - 349		
HNHKL24	5355	859923	1 - 377	15 - 391		AA847395, AA525331, R98239, AI473300, N49802, AA557790, AI609972, AA655005, AA486877, H68186, N95156, AI302917, AW272599, AW327624, AL037714, AW327282, AC003967, AP001050, AL022098, AF124730, U91318, AL109758, AC004771, AC005256, U95090, AC005330, AC005622, AL008726, AL049610, AL035588, AC004743, AF064861, AC004821, AP000688, AC007386, U82828, AC005722, AC005392, AC004456, AL024495, AC005907, AC006130, AL031777, Z93930, AC005006, Z83851, AC004881, AL024498, AL024509, AC004765, Z96074, AP001053, AL049869, AL109759, AC004382, AL133246, AC005799, AL034429, AC005048, AC004049, AB003151, Z69920, AL050307, AL031664, AL022165, AC005017, and AC005083.
HNHKL72	5356	761427	1 - 301	15 - 315		
HNHKL88	5357	786555	1 - 461	15 - 475		AA745582, AA53457, AI937850, AA515224, AA594145, AI570261, AI439360, AI623898, AA310868, AI659826, AW341890, AA704643, AA663306, AA587604, AA805373, AW338086, AA347930, T40077, AA743980, AI590772, AW406755, M86143, AI365988, AW250970, AA358409, AA347927, AA780929, AF147277, AL049776, AP000294, AL118497, AC002544, AC005291, AL035420, AL031276, AP000043, AF196779, AC002350, AC004854, U95742, AL008582, AC006285, AP000111, AC003965, AC002553, AC016025, AC005911, AL049557, AC004955, AF134726, AC010197, AC002470, AL121877, AC005231, AL035681, U96629, U75285, AC006241, AC008273, AC010200, AC004801, AF053356, AC005969, L44140, U91326,

					AC005594, AC004076, AC005510, AL132712, AC004745, Z68872, AC004972, AL008708, AC007793, AF088219, AP000082, AP000557, Z93017, AC006251, AF045555, AC009731, AB020867, AC008079, AB014079, AC003082, AC005197, AC004890, AL096701, AC007032, AL049697, AC004263, AC007731, AC005500, AC009784, AC002365, Z22650, AC004690, AL035699, AC006139, AC000003, AC006153, AP000359, AC004650, U78027, AL035455, Z73417, AC000353, AL023879, AC009509, AB023051, AC005409, Z86061, AC004234, AC000094, AC005944, AP000223, AC000085, AC009178, AF200465, Z97196, AL031584, AC005781, AL022320, AC007308, AC006946, Z83840, AL121653, AC002316, Z97054, AP000952, U13679, AL022721, AL121915, AC004019, AP000552, AP000503, Z83822, AC005181, AC008124, and AP000512.
HNHKN73	5358	762011	1 - 548	15 - 562	
HNHKP30	5359	793658	1 - 336	15 - 350	AC005216.
HNHKP48	5360	721149	1 - 726	15 - 740	
HNHKP72	5361	761432	1 - 722	15 - 736	AA421400, and AL208373.
HNHKS69	5362	750487	1 - 318	15 - 332	
					AA491361, AA297081, AA649079, AL362442, T31183, AL570805, AA468289, AL732682, AL872493, AL289050, AL872476, AL284092, H25626, AA337978, AL610900, R86141, H01852, AL078143, AA516045, AL035417, AC005043, AC011456, AF049895, AF001549, U52112, AC005881, Z85996, AC005244, AP000962, AL022336, AC006241, AC005480, AC007688, AC005625, Z82203, AP000689, AC022517, AB003151, Z93930, AC004383, AC007774, AL035071, M26434, AC006023, AL109653, and AL109657.
HNHKS75	5363	766926	1 - 311	15 - 325	
HNHKT06	5364	934643	1 - 270	15 - 284	
HNHKT75	5365	766924	1 - 128	15 - 142	
HNHKV67	5366	751205	1 - 363	15 - 377	AC000364.
HNHKW47	5367	786020	1 - 348	15 - 362	
					H69968, AA601230, AL120191, AA878492, AW104800, AA629963, AL288033, AL800343, H93132, AA501867, AA362790, AA600132, AA653916, AA525769, AL246061, AA078509, AA079884, AA526662, AL223626, R72242, AW249541, AL312533, R84528, AL869786, AL054090, AA664248, AA678733, C14966, AL251241, AL134332, AL284543, AW238212, AL254770, AL251944, AL251034, AL251203, AL251284, AL250552, AW130446, R87912, AA088738, H37815, H41308, T08386, AL043315, AW419389, AA487829, AL138017, N25043, AW089950, AL249853, AA286727, AC005348, AC005180, U82828, Z94161, Z81369, AL079295, AC006537, AC007676, AL050333, AL033522, AC005049, AL024498, AF196969, AC005355, AL035067, AL109865, AL009177, AL022328, Z85986, AC006101, AC002117, AC004477, AC005921, AL023876, AL109627, AC007787, AC000070, AC005553, AC004520, AC003071, AC008044, AC005486, AC005697, Z98051, AC005331, AC002364, AC006141, AF222686, Z85999, L43399, AC020663, AL050313, M89651, AF031078, AC006057, AC000067, AF030876, AC005943, AC006088, Z98884, AC004882, AP000260, AC004007, AL050318, AC004765, AL034549, AC002126,

					AC005409, Z97055, AC004834, AL049757, AP000512, AP000099, AC005703, AL022332, AL035588, Z93023, AC005529, AC004491, AC006318, AF186194, AL079339, AC005193, Z69721, AC007298, AC002404, AP000036, AC005911, AC005839, AL139054, AC005696, Z68277, AC007216, AP000159, AP000017, AL031729, AC005837, AC002369, AC006064, AL110114, AL023575, AC005668, AB023048, AC002123, AC005280, Z98036, AC006409, AL022324, AP000128, AP000206, AC007934, AC010209, AC005225, AC004382, AC010205, AC003009, AC002984, Z86090, AC007376, AC004042, AL031255, AC008101, AP000245, AC007938, AL096701, AC004771, AC006327, AC005354, AP000313, AL080243, AL023879, Z84483, AC002477, AC005006, Z84466, AL132777, AF165138, AL049874, AC006480, AC006388, AL132992, AP000555, AC008079, AD000812, AL049569, AC003957, AC007182, AC016830, AC004659, AF124523, Z79997, AC007666, AP000050, AL121748, L47234, AC002351, AF207550, AC001643, AC005632, AL109628, AL049872, AL034420, AC006160, AC006996, AP000117, AC000052, AF181897, AC005209, Z68756, AP000961, AL078611, U52112, AC006039, AC007225, AC002511, AC003110, AB016897, AL035450, AF118808, AC002091, AL033527, AC007242, AP000330, Z97652, AL049795, AC004019, AC006538, Z92542, AL121652, AC002543, AC006208, AF111163, AF053356, Z99916, AL049692, AC005217, AC005971, AL022476, AL049829, AC007227, AL021393, AC005620, AC004629, AL022322, AC005880, and AP000210.
HNHKA76	5368	767917	1 - 499	15 - 513	
HNHKA81	5369	761429	1 - 520	15 - 534	
HNHKA83	5370	780650	1 - 519	15 - 533	
HNHKA10	5371	963575	1 - 824	15 - 838	
HNHKA38	5372	796804	1 - 513	15 - 527	
HNHKA47	5373	789625	1 - 457	15 - 471	
HNHKA77	5374	771530	1 - 365	15 - 379	
HNHKA21	5375	966164	1 - 708	15 - 722	
HNHKA08	5376	958422	1 - 595	15 - 609	
HNHKA16	5377	784264	1 - 800	15 - 814	
HNHKA55	5378	754480	1 - 652	15 - 666	
HNHKA71	5379	761430	1 - 716	15 - 730	
HNHKA89	5380	786461	1 - 547	15 - 561	
HNHKA90	5381	970724	1 - 595	15 - 609	
HNHKB08	5382	958416	1 - 445	15 - 459	
					AL046409, AW029038, F36273, AA482711, AL431303, AL350211, AL963720, AL284640, AW276827, AW162049, AL929531, AL679782, AW193265, AL962050, AW088202, AL613280, AL801482, AA469451, AW261871, AL669453, AL345654, AW419262, AL048925, AW088616, AW148792, AW021583, AL358501, AL037683, AA610491, AL061334, AL358229, AA101689,

				AA679672, AA577906, AL041690, AI379719, AA587604, AA649642, AI349850, AW410400, AI801591, AI918421, AI619997, AL118991, AI298710, AW269488, AA446657, AI471481, AI688846, AI341664, AW438643, AA652057, AI344844, AW008317, AI446638, AW193432, AW080120, AA309841, AW103758, AA584581, AI375710, AI270117, AW270716, AI358343, AI537955, AI143242, AI085719, AI580652, AA632868, AA720758, AA483771, AA846935, AA451612, AI610159, AI955323, AI792287, AA737318, AI061227, AI053790, AI289067, AI921476, AW276817, AA714453, AW023389, AA973803, AI653886, AA857486, AL119984, AL038785, AI568678, AA604156, AA594145, AI754658, AI446464, AI744995, AA908849, AA488395, AW169537, F18638, AA350859, AI865897, AI110688, AI133164, W79504, C06339, AA346454, AA488432, AF077058, X55925, X54175, D83989, X75335, U18398, AF015167, X54178, U18391, I51997, AF015147, U18390, X55932, X54181, U18399, U18395, U18394, U57009, U57006, S75201, AF015153, U57007, M37551, U18392, U57005, U57008, X55550, U18393, AF015151, U18387, AF015157, AF095855, X55930, X55926, X54180, AF015156, U57004, X55931, X54176, M87919, U67801, AC006466, X54179, U12580, AF196779, AF015149, AC006571, U11309, AP001172, AC008039, AC007262, AF042090, AC008064, AC007845, AC004263, AC005019, AL117256, AF015148, AC006207, AC008079, AL022724, AL049562, AL021407, S70707, AP000552, AL110292, X55928, AC005597, U67231, AL049557, AC006277, AC007308, X76629, AC004232, AC009516, AL078624, AF023460, AC002119, AP000555, AP000049, AL031286, AC008101, AC004987, Z82210, AC007043, U67827, AC005779, AC002365, AC005932, AL023284, AC000086, AL034423, AC005661, AF015170, AP000311, AL034451, Z49816, U67221, AC006019, I47228, AP001052, AC006064, L81869, Z99716, AF015160, AL078593, AC005067, AF015155, AL031123, AL133246, AC005399, AC005081, AC005531, AC005102, AL022725, AC004894, AL020996, AC005620, AL078477, AC007537, AL096768, AC005777, AC001050, AC007450, AL096701, AC006953, Z69666, MI6110, AL080243, AL023882, S43650, AC006128, AC007114, AC016026, AC016831, AL031280, AF165176, Z98257, AC006449, AC000025, AC004596, AC002564, AC007317, AL139054, AL049636, Z75887, Z94721, AC006211, AC005527, Z86061, AC006312, AP000156, AC005529, AL121655, AC004019, AC005104, AL049745, AC005911, AC005785, X55927, AL050318, AC002430, AL031295, AC004034, AL096771, AL035458, AL022316, AB020859, AC004033, AC006213, U12583, U80017, AC009223, U95740, AL035450, AP000567, AC005182, AL021453, AC004638, AC004672, AL031281, AC005193, AC007384, AP000350, AC006597, AL021877, Z82180, AC003684, AC005250, AP001054, AC005066, AC004859, AC006241, M87916, U69569, AC006057, AC000118, Z99755, Z92845, AC006479, AC005944, AC004848, AP000359, AC005778, AC007707, AC005046, AF085913, Z82189, AC004217, AC005075, AL031257, Z98051, AC007324, AC004940, AC004985, AC002349, AL035659, AC006285, and AC004699.
HNHLC69	5383	754466	1 - 454	15 - 468
HNHLD08	5384	859857	1 - 318	15 - 332

HNHLD13	5385	805983	1 - 400	15 - 414	
HNHLD37	5386	859859	1 - 394	15 - 408	Z49769, and AC005516.
HNHLD81	5387	779345	1 - 288	15 - 302	
HNHLE72	5388	966149	1 - 232	15 - 246	
HNHLE75	5389	859856	1 - 244	15 - 258	
HNHLE73	5390	908449	1 - 243	15 - 257	AW403735, AA459771, AW138677, AW293884, and W44360.
HNHLE58	5391	859858	1 - 343	15 - 357	
HNHLE56	5392	883321	1 - 211	15 - 225	AC004844.
HNHLE69	5393	754440	1 - 168	15 - 182	
HNHLE77	5394	967239	1 - 506	15 - 520	Z94161.
HNHLQ36	5395	760460	1 - 519	15 - 533	
HNHLQ61	5396	795942	1 - 501	15 - 515	
HNHLQ80	5397	775621	1 - 239	15 - 253	
HNHLR73	5398	761855	1 - 404	15 - 418	
HNHLR91	5399	789786	1 - 262	15 - 276	M62264, A1745473, AA338228, AW370286, AW238594, F29013, A1459798, AA627921, AA317224, AA599354, AA977307, T49213, AW404844, AL120183, AA365407, AA229984, A1367551, AA937618, R62701, AA654781, AA782306, AA338378, T48241, F02597, AL037533, AL079894, Z70758, AC004491, AC002067, AC004884, AC004596, AC004837, AC004928, AC005399, AC004019, AL096791, AC006468, AL109963, AL031133, AC016025, U91326, AC007055, AC002404, AC003010, AC006120, AL022163, AC005046, AL049776, AC002468, AC006277, Z82206, AC004998, AP000354, AC004859, AL049778, AF045555, AC004552, AC007276, AL022726, AP000045, AP000113, AL008582, AL031666, AC002531, AC007435, AC004106, AL031311, AF196779, AC004805, AL024507, AL035461, AF038458, AC005839, AC006057, AL021154, AC005907, AC002352, AL021808, AC007731, AC002994, AL109827, AL022400, AC005500, AC004881, AC007283, AC002563, AC004887, AC012627, AL031584, AL022316, Z99943, AP000689, AC008079, AL035684, Z98051, AL022476, AC005520, AC005291, AC004000, AC000052, AC002527, AC007225, AC006449, AL033525, Z93020, AJ003147, AC005993, AC005879, AF015416, and AB003151.
HNHLS04	5400	927077	1 - 297	15 - 311	
HNHLS53	5401	827329	1 - 273	15 - 287	
HNHLT49	5402	784983	1 - 116	15 - 130	AL031258.
HNHLV84	5403	782319	1 - 265	15 - 279	
HNHLW93	5404	791782	1 - 489	15 - 503	AL096701.
HNHLX82	5405	779298	1 - 327	15 - 341	
HNHMC78	5406	772969	1 - 394	15 - 408	AA324059, AA326603, AA324559, AA328387, T17332, AA878492, AA626840, F03603, A1278847, AL134418, AA550989, A1904944, A1150934, A1268019, AA133013, A1733856,

HNHMD85	5407	876673	1 - 355	15 - 369	AW020198, A1473995, A1886360, A1073373, AL039761, AW247338, AW243945, F19643, A1872117, AA078754, AL120282, A1903090, AA525332, A1288033, AA708263, R83585, AW301483, AA598605, A1744933, AA513189, A1188049, AC007386, AC004974, AL133289, AC007848, U89335, AC007240, L35682, AC004966, AC007308, AL049776, AC003101, AC004526, AP000692, AP000502, AF019413, AC004703, Z98200, AC003010, AC006449, AC005562, Z94801, X82877, AC004927, Z85994, AF188024, AL031053, AC005231, Z93023, AL050307, AC005274, AP000432, AP000290, AC002295, AL035420, AC007388, AC007537, AC005779, AC005514, AL008710, A1246003, AC004466, AF196972, AC004648, AL121658, AC005036, AL031281, AL139054, AL008582, AC005695, AC008132, AL008734, AL008726, AC005768, AC004884, AC004475, AC002301, AP000705, AL049712, AL031599, AC007736, AC003042, AL109984, AF030453, Z95115, AC005288, AF038458, AC004920, AC002115, AC004757, AF027390, AC007227, AC002045, AC002996, AC005378, AC005261, AP000042, AP000110, Z98036, AC002470, AC007542, AC005220, AL031846, AF114847, AF107259, AP000466, AP000094, AP000239, Z93241, AC002463, AL096773, AP000032, AP000104, U73634, Z85997, AC008033, U52112, AC006039, AC009247, AC003089, AL035400, AL034420, AC005295, AC005666, AC006536, AC006210, AC005538, AL035086, AC007686, AC005800, AF111169, AL035659, AC004789, AL035684, AC010205, AC006211, and AC011331.
HNHMD85	5407	876673	1 - 355	15 - 369	
HNHMD25	5408	784479	1 - 585	15 - 599	W58290, W58291, AA633629, AA633622, and Z60515.
HNHMQ93	5409	791798	1 - 342	15 - 356	AL033521.
HNHMR04	5410	927056	1 - 408	15 - 422	
HNHMR43	5411	937561	1 - 350	15 - 364	AL049822.
HNHMR73	5412	967614	1 - 636	15 - 650	
HNHMS77	5413	916609	1 - 392	15 - 406	
HNHMS93	5414	791807	1 - 428	15 - 442	AL049651.
HNHMT53	5415	925689	1 - 378	15 - 392	
HNHMT54	5416	790765	1 - 271	15 - 285	
HNHMT90	5417	937564	1 - 245	15 - 259	
HNHMTU91	5418	789785	1 - 150	15 - 164	
HNHMTW83	5419	780558	1 - 245	15 - 259	
HNHMTX45	5420	953411	1 - 750	15 - 764	AC005105.
HNHMTY43	5421	859841	1 - 212	15 - 226	AC005828.
HNHMTY45	5422	958409	1 - 336	15 - 350	
HNHMTY59	5423	883324	1 - 388	15 - 402	
HNHMTY71	5424	761436	1 - 337	15 - 351	AA668485.
HNHMTZ07	5425	952290	1 - 467	15 - 481	T59562, T59516, H23893, H23894, AC000116, and AF147372.

HNHNMZ59	5426	761661	1 - 393	15 - 407	AL021026, and A91686.
HNHNMZ86	5427	784999	1 - 79	15 - 93	
HNHNMZ89	5428	786457	1 - 318	15 - 332	
HNHNA02	5429	918720	1 - 215	15 - 229	AL096774.
HNHNA69	5430	754452	1 - 148	15 - 162	AL035409.
HNHNB77	5431	771523	1 - 423	15 - 437	
HNHNC82	5432	779321	1 - 298	15 - 312	D80522, C14331, C14389, D81030, D80022, D80166, D58283, D80043, D51799, D59927, D59467, D59859, D80227, D80195, D51423, D59619, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, AA305409, D80193, D80269, C14429, D81026, D80212, D80366, D50995, D80196, D80188, D80248, D80038, D80219, C15076, D59610, AA305578, D57483, C14014, D51022, D50979, D59889, D80133, D80045, D80024, AA514188, AA514186, D80378, AW360811, D51060, AW177440, D80268, D80241, D80247, D80251, T03269, AW178893, D80439, D80302, AW352170, AW377671, AW375405, AW178906, AW179328, C75259, AW366296, D80132, AW360844, AW360817, AW375406, C05695, AW378534, AW179332, AW377672, D51103, AW179023, AW178905, AW177731, AW378532, D80157, AW177501, AW177511, D80134, AW179020, D51759, D59373, AW352171, AW377676, D58253, AW178907, AW178762, AW178908, AW179019, AW179024, AW177505, AW367967, AW369651, D51250, AW178983, AW360841, AW178775, AW178909, AW177456, AW179004, AW179329, T48593, AW178980, T11417, AW177733, AW378528, AW178754, AW179018, AW177722, AW352158, AW352117, C06015, D80168, AW176467, F13647, C14407, AI910186, D59653, AW179009, AW179012, AW178914, AW178911, AW378525, AW352163, AW360834, D80258, D45260, C14227, D59503, AW178774, C03092, D58101, AW352120, D80014, D81111, D58246, C14298, H67866, AW378543, D59627, AW367950, AW177728, C14077, D80064, D51213, H67854, D80228, AW178986, C14344, AI905856, AA809122, AI535850, AW178781, AW177723, AW378540, AW177734, AI525923, AI525917, AI525920, T03116, AW177508, D59317, Z21582, C14973, D60010, C14046, T03048, AW378533, D51221, AW177497, D51097, D59474, AA514184, AI535686, D59551, D60214, C14957, AI525227, AI557774, Z33452, AI525235, AI557751, C16955, AI525242, AI525912, T02974, AA285331, AW378542, AI525925, D45273, AW378539, AI525215, C05763, AI525222, H67858, AI525903, AW360855, AI525237, T02868, C13958, AA305720, C04682, D51053, AI525928, Z30160, AF058696, A62300, A84916, A62298, AB028859, AJ132110, AR018138, AR008278, AR060385, A82595, D89785, AB002449, X67155, Y17188, A94995, D26022, Y12724, A25909, A67220, A78862, D34614, AR060138, I50126, I50132, I50128, I50133, AR008443, I82448, D88547, AR0666488, AR016514, A45456, A26615, AR052274, X82626, Y09669, A43192, A43190, AR038669, AR066487, AR054175, A30438, AR066490, AR025207, I14842, I18367, D50010, Y17187, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR066482, AR016691, AR016690, U46128, AR060133, D13509, A64136, A68321, AB012117, X68127, I79511, A85396, D88507, A44171,

HNHND80	5433	775612	1 - 418	15 - 432	AF123263, A85477, I19525, A86792, AR032065, X93549, and AR008382.
HNHNE11	5434	966146	1 - 81	15 - 95	AC007312.
HNHNE59	5435	771529	1 - 360	15 - 374	
HNHNE83	5436	780628	1 - 333	15 - 347	AI392922.
HNHNG73	5437	761849	1 - 444	15 - 458	AP000161, and AP000020.
HNHNI10	5438	963571	1 - 212	15 - 226	
HNHNI14	5439	923079	1 - 252	15 - 266	
HNHNJ08	5440	859837	1 - 229	15 - 243	AC005071.
HNHNK71	5441	775635	1 - 180	15 - 194	
HNHNL70	5442	756633	1 - 396	15 - 410	
HNHNN56	5443	859834	1 - 580	15 - 594	AA761012.
HNHNO84	5444	782328	1 - 422	15 - 436	AL133243.
HNHNPP80	5445	775631	1 - 540	15 - 554	C14389, D59927, D51022, D80022, D80391, D59787, D80196, D80166, D59619, D80210, D80240, D80043, D81030, D59502, D80195, D50995, D80212, D58283, D80219, D59859, C15076, C14331, D80164, D80132, D59467, D51423, D51799, D59275, D80253, D80227, D80193, D80188, AA305578, D57483, D80269, AA305409, D59610, D80038, D80366, AA514188, D50979, D51060, D59889, D80024, D81026, D80378, D80045, AW177440, D80241, AA514186, C14429, AW178893, D80168, D80248, D80133, T03269, AW179328, C14014, AW360811, D80522, D80251, AW378532, AW177501, AW177511, AW178762, D80134, D51250, AW375405, D58253, AW178775, AW377671, D80268, AW369651, F13647, AW352158, AW366296, D80247, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, C14227, D80949, AW377676, D80439, D80302, D59695, T11417, AW352171, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, C14298, D80064, D81111, AW179020, AW177456, AW179329, AI903856, AW178980, C14407, AW177733, AW378528, AW178908, AW179018, Z21582, AW352174, D80157, AW178914, AW378525, D51103, AW367967, AW378540, AW360834, AW177728, D51759, D58246, AW178774, AW178911, AW177723, AW378543, AW352163, D59503, C14077, C06015, AW178781, AA285331, T48593, D58101, D51097, D59627, D80258, AI557751, D45260, C03092, AW378533, D51213, D80014, AW367950, AI525923, H67866, H67854, C14973, AA809122, AW178986, T03116, D45273, D51221, AA514184, AI525917, D59317, C14344, D59474, AI535686, AI525920, AI557774, D59551, T02974, AI525227, C14046, AI525235, T03048, AI535961, AI525242, AI525912, AW378542, AI525925, AI525215, C16955, C05763, Z33452, AW360855, H67858, AI525237, AR018138, A84916, A62300, A62298, AJ132110, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, D88547, X82626, A82595, AR025207, AB002449, A94995, AR060385, AR008443, I50126,

						I50132, I50128, I50133, AR066488, AR016514, AB012117, AR060138, A45456, A26615, AR052274, X68127, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I14842, A85396, AR066482, I18367, A30438, A44171, A85477, D88507, AR054175, I19525, A86792, D50010, Y17187, X93549, AR008277, AR008281, A63261, X64588, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, I79511, AF135125, and AF123263.
HNHNP86	5446	784788	I - 397	15 - 411		C14014, C14389, D59927, H67854, D59467, D80227, D80195, D51799, D80391, D80164, D59275, D59787, D59502, D59610, D80269, D80045, D58283, C14331, D80212, D59859, D80196, D80022, D80166, D80253, D80038, C15076, D51423, D59619, D80210, D80240, D80043, D81030, AA305578, D80378, D50979, D80193, D80188, D80219, D80241, D51022, D80366, D57483, D50995, AA305409, D59889, D80024, AW177440, AA514188, D81026, C14429, D58253, AW178893, AA809122, D51060, D80248, T03269, AW179328, C75259, D80522, D80251, AW378532, AA514186, D80133, AW360811, AW177501, AW177511, D80134, AW178762, D80268, C05695, D51250, AW375405, AW178775, AW369651, D80132, AW377671, AW352158, AW366296, AW352117, AI910186, AW360844, AW178905, F13647, AW360817, AW375406, AW176467, D59695, D52291, AW378534, AW179332, AW377672, AW179023, D80302, C14227, D80168, AW352171, AW178907, D80439, AW377676, AW178906, AW352170, AW177731, AW179019, AW179024, D59373, D80247, D81111, AW177505, D80157, C14298, AW178909, AW179020, C14407, AW360841, AW352174, D80064, AW177456, H67866, AW179329, AI905856, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, T11417, D51103, AW179004, AW179012, AW367967, AW178914, AW378525, D58246, AW378540, Z21582, AW177722, AW177728, AW178911, AW360834, AW179009, D51759, AW178774, AW378543, AW352163, D59503, D51097, C06015, AW367950, AW178983, AW352120, AA285331, D58101, AW178781, D59627, T48593, C14975, D80258, AI557751, AW177723, D59653, AW177508, AI535850, D45260, AW378533, D80014, H67858, D51213, AW177497, C03092, AI525923, D45273, T03116, C14973, AW178986, AA572801, D80228, D59317, D51221, D59474, D60214, AW177734, AI525917, AC005071, D88547, A84916, AI132110, A62300, A62298, AR018138, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, I82448, X82626, A82595, AC005537, AR025207, A94995, AR060385, AB002449, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AB012117, AR060138, A45456, A26615, AR052274, X68127, AR066490, AR066482, Y09669, A43192, A43190, AR038669, AR066487, I18367, A85396, I14842, A30438, A44171, A85477, D88507, AR054175, I19525, A86792, AC002550, AC007425, AC006501, D50010, Y17187, X93549, AC005332, AC004217, AC005730, AC006117, AC007225, A63261, Z83822, AL109759, AL049795, AC005899, AL035685, A91683, AC004778, AL050333, AC004671, AL031293, AC004881, AL121658, AC004851, AC007993, AC004616, AC005821, Z97054, AR008277, AR008281, AL035659, AL009051, AL109798, AC003010,

HNHNU23	5447	968911	1 - 423	15 - 437	U48453, AR008408, Z77249, and AC008171.
HNHNU27	5448	920254	1 - 410	15 - 424	R08335.
HNHNV52	5449	859831	1 - 216	15 - 230	AI804369.
HNHNW64	5450	859832	1 - 208	15 - 222	
HNHNX04	5451	927027	1 - 154	15 - 168	
HNHNX88	5452	959011	1 - 544	15 - 558	AA507824, AI284640, AW088846, AI312309, AI963770, AA877817, AL119691, AW303196, AA846876, AL138265, AW274349, AW327868, AW301350, AA581903, AL046409, AA521399, AA521323, AI144101, AW274346, AL038705, AL120959, AL038072, AW304584, AW265393, AI133164, AI345518, AW193265, AA679514, AI431303, AA490183, AI355206, AI133102, AA720702, AA806796, AA613203, AW268973, AA629992, AW407578, AI865905, AW265385, AI457397, AA531372, AA533036, AI281881, AA469451, AA665330, AI613280, AA491284, AL043719, AA523838, AL046457, AW276817, H71429, AA470969, AW073470, AI345654, R24887, AI110770, AI053790, AA515549, AA372478, AI305547, AW270382, AW238278, AW340844, AI623720, AA569471, AL045053, AA551503, AL121235, AA503473, AI632991, AL041690, AA587587, AW020340, AA856848, AI610159, AA491814, AL042853, AA525824, AA501809, AA514854, AI654525, AA523843, AW265170, AW276827, AI149478, AA682912, AI801600, AI792518, AI696962, AI633025, AA584145, AA548058, AI821271, AA780515, AA101689, AW072923, AI249997, AI903462, AI567832, AA569661, AA515829, AI061143, AI251436, AI583283, AA719292, AA623002, AI499588, AW103758, AL048925, AA552856, AA552843, AI246119, AI860020, AI350211, AI434695, AA812139, AA775207, AW273218, AI061334, AL048626, AI038474, AA721056, AW440545, AW269488, F36273, AI792505, AI754658, AI282511, AW338086, AI679132, AW276435, AW438643, AW302903, AL042420, AI536665, R97780, AI345157, AA346458, AW168453, AI669453, AW028392, AW271904, AI357288, AI580652, AA515909, AW404653, M77974, AA747276, AA665199, AA649642, AA126035, AA533333, AI368745, AI718446, AA533725, H63262, AA513141, AI754955, F36306, AA503258, AI568678, AA808877, AW029038, AA862173, AI053606, AA577906, AI589230, AA079462, AA604362, AA513181, AW021583, AI956124, AA583955, AC007165, AL021878, AL121754, AC003695, U57007, AL031577, D83989, Z81369, AL079295, AC005166, AL035681, AF109907, AC004447, J51997, AC005844, U57006, AC005589, AC005237, AL049776, AC004883, X55925, U62317, X55926, U18391, AF015148, AC008372, AC005666, AL121718, AC005971, AC008039, AC005071, L48472, AC006432, U57005, AC008417, U18392, AL031279, M37551, U67825, AC007055, AC005399, AC006079, AC003101, AC006064, AC002553, Z97352, AL022476, AC007387, AC005011, AC003038, AL050333, AC005940, AC005231, U15177, AC004957, AC005919, AC009300, AC004611, U18394, X53550, AL008582, AF176815, AJ003147, Z79997, AC004972, AL021707, X55922, AL008583, AL031280, AC005694, AL132641, AC002465, AC003690, AC004887, AF091512, AL078611, AF015156,

HNHOA03	5453	923052	1 - 443	15 - 457	AC004854, AC008072, AC006449, X87579, AC007363, Z49236, AL031680, AC005291, AC005690, AC006207, X55929, AC007011, AC007225, AC006146, AL049780, AC005736, AC005527, AC000052, AP000121, U91323, AC005619, AC004039, AF001548, AC005006, AL133163, AL050312, AC005363, AP000053, AP000168, AP000350, AL109847, AC005747, AL049569, AF027390, AC004916, AF015157, AL078476, AC005529, X55924, U18395, AL049745, AL031594, AC004019, AF002991, AF196779, AC004531, U57009, X54181, X54178, X54180, X55927, D26067, AC007462, AL022336, Z92844, AC003691, AC011421, AL022326, AC004808, AJ010770, AL122020, AP000504, AL008715, AL021393, AC006132, AC006312, AL035424, AL096701, AC005519, AL109628, AC004167, AC005988, X55931, U18393, AC004896, AC002067, AC008154, AC007193, AC002457, AL031282, Z81308, U47924, AL035458, AC005411, AF003528, AC009516, AF038458, AL049759, AC004596, AB023049, AP000512, AF015147, AL049779, AC002449, Z93783, AC002432, U18387, AC005274, AL035079, AL133371, U18399, X54176, AL136018, AC002472, U07000, AC005280, AC004148, U04355, U11309, AC006254, U57008, AL078634, U91326, AC004990, AC006101, AC000117, U67221, AC005757, AL024498, AL034420, AL121655, AC008067, AL049556, AC005330, AC002312, AC004812, AC002476, AC005284, AC004112, AL008721, AC003665, AC005081, AC003080, AL109938, AC004231, AP000558, AC006166, AL008639, AC002117, AL096791, AC006011, AL022318, AP001039, AC005066, X55932, AC004547, AC004544, AC002350, AC004673, AC005076, AC004814, AC007685, AL096829, AC006088, AC007681, AC004712, AL109827, AC002316, AC005089, AC005924, X87344, AC005154, AL021026, AL049548, AC005246, AC004150, U80017, and AC006238.
HNHOC03	5454	922892	1 - 318	15 - 332	AI953346.
HNHOD01	5455	915341	1 - 548	15 - 562	
HNHOD62	5456	852995	1 - 378	15 - 392	
HNHOE53	5457	767329	1 - 619	15 - 633	
HNHOF03	5458	922028	1 - 482	15 - 496	AA311412.
HNHOF07	5459	952291	1 - 438	15 - 452	AA310235.
HNHOF92	5460	790934	1 - 623	15 - 637	
HNHOG84	5461	782316	1 - 540	15 - 554	
HNHOG86	5462	785004	1 - 558	15 - 572	AA663481.
HNHOH10	5463	963562	1 - 546	15 - 560	
HNHOJ03	5464	923072	1 - 698	15 - 712	AA682500.
HNHOM92	5465	792328	1 - 358	15 - 372	AL031277.
HNHOO16	5466	959616	1 - 1089	15 - 1103	H56490.
HNHOO25	5467	859826	1 - 602	15 - 616	

HNHO074	5468	915462	1 - 492	15 - 506	AP000700, and AP000701.
HNHO087	5469	787562	1 - 407	15 - 421	
HNHO10	5470	963539	1 - 527	15 - 541	
HNHOQ76	5471	767877	1 - 414	15 - 428	
HNHOS70	5472	756593	1 - 342	15 - 356	
HNHOS75	5473	766736	1 - 365	15 - 379	
HNHOT10	5474	963631	1 - 305	15 - 319	
HNHOT11	5475	923065	1 - 470	15 - 484	AF064861.
HNHOT95	5476	795331	1 - 86	15 - 100	U91319.
HNHOU20	5477	773797	1 - 364	15 - 378	
HNHOU68	5478	806090	1 - 449	15 - 463	
HNHOU94	5479	793514	1 - 352	15 - 366	<p>AI471543, AA127353, AI298079, AW169537, T40617, AW167267, AI273968, AI718446, AI287485, AA199692, AW162288, F13749, AA669647, AI567076, AI635274, AI038990, AC007126, AC003006, AC000353, AL023575, AC005180, AC005829, AL031848, AL022316, AL135744, AC002984, AL049569, AJ003147, AL035658, AC002404, AC008101, AC005295, AC005154, AC006271, AC006285, AC016026, AC006057, AC007999, AP000090, AC006077, AC006023, AL021707, AP000044, AP000112, AC005157, AL049795, AC006536, AL096712, AL035587, D87675, AL022315, AC004222, AP001065, AL050318, AL133297, AC006013, AC006125, AC007216, AC005144, AC006544, AC005015, AL049779, Z84480, AL035659, U95742, AC002470, AC006050, Z84484, AC005839, AL022238, AL049829, Z84469, AL035422, U95740, AC005412, AL049636, AC007227, AC008372, AC007182, AF134726, AC006538, AC003009, AL031291, AL049830, AC007919, AC005785, AC006211, AC005815, U91326, AC005060, AL021546, AC006543, AC007845, AC004765, U47924, AC004019, AC005678, AL022476, AP000557, AL033376, Z99716, AC002565, AC007537, AL049776, AC006480, AC008064, AL022163, AF196969, AL023494, U66060, AC002544, AC004638, AC005754, AC007899, AL096773, AC005102, AC006195, AC005740, AL023553, Z83840, AC002094, AL121603, AL031296, Z97196, AL122020, AP000512, AC005821, AC005969, AC000003, AC007878, AL035703, AC004945, AC007324, AL033392, AC006312, AL024498, AC004223, AC010849, AC002429, AC004821, AC002369, AC004816, AC008079, AF129756, U80017, AC005019, AC005846, AC005071, AC009516, AC002310, D84394, AC006251, AP000513, AL134448, AL049766, AC005069, Z93020, AC004808, AC005668, AP001053, AC016025, AC005081, AL031289, AC005535, AC005332, AC004099, AC005225, AL078581, AC005523, AC005231, AC005899, U91319, AL080242, AL031281, AC002425, AC006127, AL096701, and AL022721.</p>
HNHOX09	5480	854882	1 - 691	15 - 705	AA179093, W05670, H75806, AL137564, and AB028998.
HNHOX10	5481	963545	1 - 509	15 - 523	

HNHOX31	5482	859820	1 - 509	15 - 523	
HNHOX89	5483	786411	1 - 504	15 - 518	
HNHOZ04	5484	923013	1 - 374	15 - 388	
HNHOZ90	5485	787488	1 - 644	15 - 658	Z56336.
HNHPC08	5486	952246	1 - 360	15 - 374	
HNHPC36	5487	859819	1 - 452	15 - 466	
HNHPC72	5488	772970	1 - 348	15 - 362	AA421740.
HNHPD04	5489	974103	1 - 489	15 - 503	
HNHPD07	5490	952244	1 - 520	15 - 534	
HNHPD13	5491	859815	1 - 480	15 - 494	AC005828.
HNHPE86	5492	784919	1 - 701	15 - 715	AA928156.
HNHPG61	5493	784432	1 - 516	15 - 530	AL041914, AA262042, R14254, AL041237, F13514, and AL133057.
HNHPG66	5494	859812	1 - 882	15 - 896	N70274, A1804923, AA934526, A1992261, AW140138, W88993, A1077351, A1793312, C06015, D80164, D80195, D51022, D59502, D80038, D81026, D80247, D59467, D59275, C14389, D80227, D58283, D80133, C15076, D80439, D80022, D80391, D59787, D80269, D80166, D80193, D59619, D80210, D80240, D80045, D50979, D59859, C14331, AA305409, AA305578, D51423, D51799, D80253, D80043, C14014, D81030, D59889, D80196, D80212, D80219, D80268, D80366, D80188, D80522, D50995, D59927, D80157, T03116, D57483, A1525923, AA809122, D45260, H67866, C03092, AW177440, AW178893, D58246, D80251, D59551, D59503, D80258, A1525917, T11417, AW375405, F13647, D59317, AW360811, A1525235, H67854, A1535686, A1525215, A1525920, AW360817, AW360834, C14227, D59627, C14973, A1525227, D80064, D80014, AW178906, T03269, AW179328, T48593, AW375406, AW378534, A1525925, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, A1525242, AW378533, AW378532, AA514184, A1557774, A1525912, AW377676, D59695, AW178907, AW178908, A1525237, D45273, Z21582, AW178914, AW178774, AA285331, A1557751, AW367950, D80168, C16955, AW378542, Z33452, T02974, D52291, AW378525, AW352163, C14298, A1525239, D51213, T03048, A1525228, D31458, A1525216, A1525238, A1525969, A1525903, AF058696, A82595, AB028859, AJ132110, AR060385, AR008278, A84916, AB002449, A62300, A62298, AR018138, I14842, I50126, I50132, I50128, I50133, AR054175, AR016691, AR016690, U46128, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, AR008277, AR008281, A26615, AR052274, A43192, Y12724, A63261, A43190, AR038669, A25909, AR066488, Y09669, AR066487, A70867, A67220, D89785, A78862, D34614, A30438, AR062872, AR008443, I79511, A64136, A68321, D88547, D50010, I82448, X68127, AR016808, X82626, AR025207, and AR060133.
HNHPG85	5495	783821	1 - 395	15 - 409	D80022, D80195, C06015, D80302, AA809122, A1525237, H67866, D58246, D80247, D81026,

					C15076, C14014, D59551, D80258, AI535686, D59503, D80164, D80045, D59502, AI525235, D51423, D80168, D80133, D80038, Z21582, D80269, H67854, AA305578, D59627, D80188, D59467, D59275, D50979, D80227, D80024, C14389, D59610, D51221, D51022, D45260, D80043, D50995, D80439, C14973, D45273, D81030, T03116, D80196, C14227, D80251, D80391, C03092, F13647, D59787, D80157, D80166, D80212, D80366, D81111, D80193, AI525215, D59619, D80210, D57483, D80240, T11417, D59317, D80253, D80219, D58283, D80064, AA305409, D59859, C14331, D80014, D80268, D59889, AI525923, D51799, AI525242, D51103, C16955, D59474, D80248, D80522, Z33452, AA514186, AA514188, T02974, D80241, T03048, AI525920, AI525912, D59927, AI535665, C14344, C14407, D80378, AI525917, AI525227, C13958, D58101, D59695, T02868, D52291, H67858, C14298, D51213, AI525228, C14077, AI557774, D31458, Z30160, AI525216, AI525925, D80949, AI525238, C05763, AI557751, AI525222, AA514184, AI525969, AI525903, AI535961, AI525907, AI525914, AI525922, AI525978, AB002449, A82595, AR018138, I14842, AR060385, AB028859, AJ132110, A84916, A62300, A62298, I79511, AR054175, AR008277, AR008281, AR008278, AF058696, I82448, and AR016808.
HNHPH29	5496	934456	1 - 486	15 - 500	
HOIAE91	5497	935322	1 - 548	15 - 562	AW450671, AA936632, AA373754, AW301553, AA887804, and AA523682.
HPSAA31	5498	739041	1 - 563	15 - 577	AA371521, and AA371520.
HPSAA50	5499	723558	1 - 299	15 - 313	AA371530, AA371532, AA283143, and AA985190.
HPSAA63	5500	536776	1 - 316	15 - 330	AA371537, AA371640, and AA371643.
HPSAB25	5501	677474	1 - 321	15 - 335	AA371618, AA371540, AA652942, AC005365, and AL080317.
HSATA03	5502	925082	1 - 309	15 - 323	
HSATA86	5503	683251	1 - 505	15 - 519	H64038, and W04139.
HSATE44	5504	666207	1 - 391	15 - 405	
HSATE89	5505	531280	1 - 392	15 - 406	AA916748.
HSATF05	5506	907593	1 - 328	15 - 342	AI568725, and AW084480.
HSATF79	5507	781718	1 - 233	15 - 247	
HSATJ56	5508	716434	1 - 654	15 - 668	R81464.
HSATJ84	5509	781405	1 - 380	15 - 394	N99795.
HSATM25	5510	688006	1 - 439	15 - 453	AC003689.
HSATM79	5511	677717	1 - 445	15 - 459	AC000119.
HSATQ28	5512	866951	1 - 365	15 - 379	H58978.
HSATQ76	5513	765376	1 - 569	15 - 583	AW022615, N51894, and D62269.
HSATR17	5514	888871	1 - 437	15 - 451	AI111179, and AF090944.
HSATR27	5515	713143	1 - 168	15 - 182	D63189.
HSATR32	5516	699586	1 - 609	15 - 623	AW401775.

HSATR76	5517	659994	1 - 488	15 - 502	H85088.
HSATS23	5518	524369	1 - 288	15 - 302	AA502450, AI590404, AI278972, AI251024, AW028376, AW273201, AW273146, AA613761, AW238341, AW104163, F31670, AA338474, AA936099, AA364082, M77908, AA467740, AW023515, AW407679, AW409626, H92442, AI318548, AI567676, AA342029, AI344906, AI885134, AI754257, AA937618, AI445699, AA468135, AA533011, AA812133, AI053673, AW080118, AI434103, AW277125, AA219166, AA382171, AA743995, AA745336, AI572680, T34066, AA364199, AW149241, AA847340, AA707430, AI281622, AA570243, AI884404, AA707438, AW304592, AA707446, AI358557, AI032411, AI734119, AA489897, AA640305, AI370470, F25183, AA503459, AA668421, T03576, AI732720, AA300049, AA975894, AI538404, AA676462, AA730795, AA668148, AI003086, AA658890, AA468921, AI732327, AA487053, AI701898, AA303002, R95751, AW157424, AA172103, AI702049, AA846014, AW069110, AA328535, H51612, AA055647, AW265468, AI590442, AA309287, R33053, AI969090, AL138262, AA847341, AW148821, AI619727, AA663579, AI207744, AW192930, AA610644, AA365049, R12600, AA147521, AA362670, AL121039, AW021674, H47554, X84712, AW410844, AA829565, AA421536, AA991640, AW406139, AA657392, AW238242, AW409621, AI064968, AA829086, AA350081, AI744963, AA768079, AI521019, AL037723, AL037722, AI719372, AA984891, AI268818, Y18000, AC004882, AC005529, AP000493, U02057, AC004531, AP000689, AL049872, AC004999, AL034417, U91326, AC002544, AC005300, AC005736, AB003151, AL050318, AC005535, Z69366, AC005015, AC006449, AC004263, AC005409, AL132716, AF196972, AC005914, AC005695, Z83844, AL035086, AL049694, U07000, AC005519, AC006241, AC004887, AC002036, AL050307, AC004859, AL031657, AC007536, AC007537, AL008731, AL022316, AC004386, AC006077, AB025285, AL109613, AL020995, AF154840, L81576, AC004223, AC005325, AC002558, AL021391, AC007993, Z98256, AD000092, AL008710, AL109628, AL133448, AC004125, AB033024, AP000884, AC005412, AC006511, AC006057, AC005159, AC007227, AC007040, AC008372, AC004797, AL080233, AC005755, AC005839, AC004668, AC004770, AC004972, AC007036, AC002045, AC005565, AL049761, U89337, AC004674, AC005370, Z99716, AC007690, AL031680, AC004997, AL117258, AC007421, AC007387, AF111198, Z82208, AL121603, U52112, AC004968, AC004526, AC006360, AL050347, X02571, M12901, A91683, AC007564, AC003042, AC012085, AL132712, AC005531, AC004655, AC005355, AC003684, AL022165, AF001550, AC005585, AL049643, AC005067, AC004033, Z82198, AC007193, AL033524, AC005921, AB023051, Z97630, AC004890, AL023880, AC004228, AC002418, AC005284, AC002991, AC004896, AC005702, AL031295, AL021578, AL049869, AP000352, AC004233, AL035413, AF091512, AC006487, AC005500, AP000211, AP000133, AP000039, AP000107, AL121655, AP000547, AC002107, Z95116, AC000134, Z69374, AC003012, AC002997, AE000658, AL031587, AF111168, Z98051, AL035652, AC005211, AC004950, AC004975, AL049776, AP000502, AC006254, AL031311, AC006137, AC002492, Z93017, AC004560, AC006088,

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HSATS29	5519	689823	1 - 331	15 - 345	AC005799.
HSATS56	5520	732640	1 - 356	15 - 370	
HSATT96	5521	796565	1 - 409	15 - 423	
HSATV34	5522	732184	1 - 447	15 - 461	
HSATW22	5523	531171	1 - 316	15 - 330	
					AW166467, AI150813, AI051055, AW291572, AI186962, AL041305, R99223, AI028763, AI291690, AI692187, AL040743, AA489560, R99224, AB014596, AF176022, AP000252, AP000134, AP000212, and AP000031.
HSATX46	5524	866959	1 - 239	15 - 253	
HSAUA88	5525	757624	1 - 361	15 - 375	Z82206.
HSAUB19	5526	954055	1 - 227	15 - 241	
HSAUB90	5527	733714	1 - 117	15 - 131	AA480803, T24642, and AC004706.
HSAUD05	5528	932502	1 - 249	15 - 263	
HSAUD45	5529	531170	1 - 511	15 - 525	
HSAUE25	5530	571385	1 - 163	15 - 177	
HSAUE40	5531	866933	1 - 392	15 - 406	
HSAUF18	5532	527038	1 - 384	15 - 398	AA479823.
HSAUG15	5533	953628	1 - 907	15 - 921	AI700608, AI475748, AA261852, H43976, AA455641, AI435512, AA878284, AA721182, AA526613, AW073756, D56003, AW239128, AA367190, AW175589, AA248657, AA336678, AW402312, AA113904, and AL049610.
HSAUH65	5534	953873	1 - 357	15 - 371	
HSAUH69	5535	870437	1 - 971	15 - 985	N33174, AI333084, AA810196, AA810519, AA417898, N25355, N44958, N31476, AA491035, and AA743500.
HSAUI05	5536	856886	1 - 412	15 - 426	AI000925, AI261943, AA614341, AW376738, AI000930, AW136154, AA209435, AC005694, AC005527, AC005529, and AC002991.
HSAUI26	5537	950714	1 - 426	15 - 440	
HSAUL67	5538	866919	1 - 368	15 - 382	

HSAUQ94	5539	526936	1 - 461	15 - 475	
HSAUT77	5540	557848	1 - 151	15 - 165	AC004975.
HSAUW10	5541	967600	1 - 428	15 - 442	
HSAUW71	5542	537544	1 - 262	15 - 276	
HSAUZ38	5543	744899	1 - 666	15 - 680	F13740, and AI913247.
HSAUZ57	5544	685253	1 - 693	15 - 707	R98418.
HSAVA44	5545	866900	1 - 198	15 - 212	AC003102, Z97635, AC008126, and AC005856.
HSAVA61	5546	742073	1 - 174	15 - 188	AA907167, AA910829, AA988986, AA903887, AA825361, AA045623, AI222950, AI215879, AI870657, AA902506, and AA916305.
HSAVB05	5547	932496	1 - 297	15 - 311	
HSAVB19	5548	866899	1 - 308	15 - 322	H80879, R69751, H80878, R70467, AC004985, and AL022158.
HSAVC41	5549	584978	1 - 255	15 - 269	
HSAVC76	5550	967286	1 - 311	15 - 325	
HSAVF35	5551	932462	1 - 264	15 - 278	
HSAVG81	5552	959949	1 - 574	15 - 588	AI637636, AW082668, T94015, AI332352, AA847421, AI565225, T93337, and AF115510.
HSAVH17	5553	417452	1 - 188	15 - 202	AC005189, and AC005532.
HSAVH95	5554	574243	1 - 564	15 - 578	AA481619, W88558, AA455714, AA455659, and AA481553.
HSAVI44	5555	715837	1 - 460	15 - 474	AW021987, and AC004056.
HSAVI46	5556	717837	1 - 448	15 - 462	
HSAVI59	5557	579060	1 - 364	15 - 378	
HSAVI77	5558	739521	1 - 335	15 - 349	
LSAVL43	5559	714418	1 - 584	15 - 598	T95438, AA004549, T95461, T95342, R01904, R01953, T95357, and AA704164.
HSAVN07	5560	935797	1 - 221	15 - 235	AA731064, AW450807, AA513079, AA602113, AA503400, F36001, AA658915, AA844750, F24885, AI929819, T89864, F34389, AI748847, AI832751, F21165, AI929660, AA632963, F36287, F28779, F37620, AA627162, C00120, AP000046, AP000114, AP000303, AF193597, AF193607, AF161428, and AF161430.
HSAVN17	5561	920412	1 - 416	15 - 430	AC006468.
HSAVO37	5562	574709	1 - 339	15 - 353	
HSAVO53	5563	531111	1 - 235	15 - 249	
HSAVO82	5564	531398	1 - 118	15 - 132	
HSAVP10	5565	964950	1 - 402	15 - 416	
HSAVO46	5566	574784	1 - 314	15 - 328	AW104664.
HSAVQ56	5567	522431	1 - 430	15 - 444	AI299938, and AL109798.
HSAVR06	5568	936049	1 - 87	15 - 101	
HSAVR74	5569	827090	1 - 213	15 - 227	
HSAVS17	5570	574269	1 - 112	15 - 126	

HSAS46	5571	526756	1 - 419	15 - 433	<p> F31867, AA507499, AA714110, AI587583, AI587565, AI499954, AI521525, AW020150, AI537368, AW002831, AA356376, AI356440, H63660, AI800426, AI926102, AA808725, AI491765, AL041681, AL041682, AI246192, AI805261, AA252573, AW275432, AI537955, AI865980, AA127329, AA857296, AL121287, H85808, AA568314, AI697239, AL039309, AI697242, AI539024, AW166611, AI246996, C14692, AI653999, T03928, T49933, AA492105, AI471455, AW089016, AA610433, AA599423, F35684, T94072, AL134332, AA366601, AA484892, AW419389, AI049955, AI076236, AA558404, AA514020, AA468923, AA598605, AI038358, AI567391, AW069227, AW161016, AA128947, T69571, AA720582, AI880889, AA773289, C75034, AA480486, AA947265, AA714453, AI869797, AA487720, AI687343, AA469230, AA524800, AW089950, AA251356, AI249688, AA229988, AA371410, T06210, H90878, AI242614, AA493110, AI366902, AA130696, AA503298, AI280266, T54464, AA584655, F30650, AA468196, AA405726, AA632556, AW023111, AI223968, AA654482, AI537800, AI283938, AI521042, AA862312, AA310557, AI709174, AA297661, T52772, AW302017, AA487209, AA018105, AI917134, AA469327, AA701122, AA215585, R93854, AI188049, Z23147, AA862029, F00533, AI929796, AA666295, AA362349, AW007759, T50061, T47138, AW075296, AW274078, AI583532, AI282629, AA613627, X75335, AC005229, AL096678, U02047, AC005399, AL049766, AL021578, AC005180, AL022726, AF015164, AJ003147, M84472, AP001064, AC006327, AP000211, AC006441, AL035405, AP000563, AL049869, AC005379, AC005632, AC004922, Z95152, AC002544, X87344, AC004132, AC005328, AC004859, AC005253, U47924, AC005740, AP000133, AC005932, AF030453, U96629, U34879, AL096702, AP000350, AC005291, AC005520, AP001065, AC006285, AC005480, AL022237, AC004876, Z83822, Z85987, AL109952, AC004531, AC002985, AC004217, AC002551, Z93023, AC016025, AF031078, AC002425, AL109798, AC004975, AC004033, Z97054, AC005015, AC006011, AC003684, AC005071, AF030876, AL080243, Z83844, U18671, AC005972, AC005088, AC005516, AC004084, AC004851, AC005778, AL096791, AC004212, AL022316, AC005378, AC002314, AL021155, Z98752, AC005231, AC005519, U89337, AF129756, AC004799, AC005913, AL022329, AP000355, AC005345, AC007199, AP000509, AF217403, AP000689, AD000812, AC006111, Z84466, AC005011, AL035460, AL008718, AP000558, AL049795, AC002996, AC008040, AC005776, I34294, AC005696, AL031121, AL035422, AD000813, AC005736, AL034417, AC004224, AL117659, AC005822, AC005003, Z83826, AC005391, AC005412, Z75407, AL109758, AF196779, AC005305, AC005069, AC002390, AF069291, AL021808, AC007546, AC005512, AC005911, AP000347, AC005868, AF207550, AC006146, AC007792, AC003010, AC002455, AL031584, AC003043, AC007277, AL031681, Z93241, AC007686, AC005209, AC004963, AC002531, AC004985, AC002404, AP000553, AL109627, AC003689, AC005535, Z68285, AL035420, AL031295, S42653, AC009516, AL049874, AC004152, AL049759, Z98200, AC004750, D84394, AC004408, Z68288, AL034420, AP000692, AF111168, AC004811, AC005829, AL021394, </p>
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HSAVS76	5572	866888	1 - 81	15 - 95	
HSAVT18	5573	920565	1 - 314	15 - 328	AW058430, W21392, AW079237, AW376931, H96580, M86143, AL109839, Z93016, AC009509, AC005519, AC004000, AC005532, X74962, AL031657, and AC004003.
HSAVT24	5574	577549	1 - 645	15 - 659	AL304948, and AC006430.
HSAVT95	5575	925582	1 - 220	15 - 234	AA828835.
HSAVU11	5576	967490	1 - 130	15 - 144	
HSAVU14	5577	920695	1 - 453	15 - 467	
HSAVW44	5578	574267	1 - 443	15 - 457	AW276782.
HSAVX96	5579	744614	1 - 636	15 - 650	
HSAVY34	5580	574287	1 - 350	15 - 364	
HSAVY58	5581	526958	1 - 295	15 - 309	
HSAVZ35	5582	842039	1 - 365	15 - 379	AA297496, AA302682, AA805018, AL094944, AL369076, AA302660, R08161, AL915081, AL054090, AL246061, AA713705, AA326452, AW021007, AA226770, AW069412, H02532, AA862029, AW265688, F17537, H71678, AA586433, AL249853, AA225795, AA744095, AL048275, AL536834, AA493789, AA744423, H53217, AW272740, T83057, AA599199, AL754170, AA156147, AL635609, AL064786, AA076418, AA864426, AL284543, AA373861, AL254770, AA626595, AW169038, AL251034, AA381787, AA904211, F00564, N94342, AA095721, AL250552, AA056248, AA566084, N29936, AL270647, W24312, R35259, AA513219, AA282219, AA148197, AA834807, AA302978, AW192648, AL039801, AA503018, AA831801, AL866971, AL251203, AL475724, AL251284, AA668166, AA714073, AA683069, AA654778, AA857812, AL312090, AA525807, AL312784, AA702717, N73060, AL121782, AP000692, AC000025, AC005856, AL096763, Z85987, AC006511, AC005702, X87344, AL049835, AC006312, AL022721, AC006960, AC005527, Z98941, AL049780, AL139054, AL034549, AC006010, AP000555, I34294, AC006241, AC007073, AL035420, AC005529, AL035072, AL109628, U91318, AC004448, AC007731, AC005500, AC004019, AF064861, AF111168, AC002394, AC005602, M87889, AL031680, AC012627, AC004985, AC004000, AL109839, AC007199, AC004832, U95743, AC004834, AC005823, AC004531, AC005868, AC007201, AL132642, AC004655, AC002470, AL132777, AC005829, U02051, AC006254, AC003109, AC003025, AC006057, Z95704, AL022320, AF139813, AC007637, AC006115, AC005257,

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HSAVZ65	5583	574192	1 - 314	15 - 328	
HSAWA25	5584	577281	1 - 307	15 - 321	AA505186.
HSAWC89	5585	785988	1 - 926	15 - 940	AA134230, AI797676, AF168132, and AL080140.
HSAWG75	5586	574223	1 - 148	15 - 162	
HSAWH47	5587	720535	1 - 551	15 - 565	T85672.
HSAWI18	5588	666842	1 - 325	15 - 339	
HSAWI50	5589	742713	1 - 372	15 - 386	AC003681, AP000952, and AC008124.
HSAWJ36	5590	866874	1 - 911	15 - 925	AI935717, AI038558, R73057, AW450490, AW235225, AI650526, AI633900, AI493578, AA781347, AI252617, AI758094, AA977718, R73058, and AI344281.
HSAWJ93	5591	751429	1 - 171	15 - 185	
HSAWL80	5592	792893	1 - 310	15 - 324	AP000150, AP000009, and D83253.
HSAWN67	5593	883825	1 - 652	15 - 666	H67030, H68112, AI358229, AW406755, AI365988, F29989, AA501614, AA657835, AA525153, AW023111, AI278972, AA720732, AA176605, AA659535, AA879053, AW168433, AA634786, AA551798, AA573020, AA715814, AI241976, AA827960, AA579184, AA136829, AI358089, AA574286, AW438643, AI689019, AI275183, AA878140, AA772016, T29180, U18399, U67822, U67823, AC007298, AC007312, X55922, AP000692, S48196, AL133245, U85195, AC005358, AE000658, D87008, L81893, D88268, AC004921, AI133289, AC005620, AC004167, AC001066,

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HSAWT91	5594	522474	1 - 241	15 - 255	
HSAWU96	5595	577267	1 - 436	15 - 450	
HSAWV18	5596	666841	1 - 138	15 - 152	AA835667, and AI936498.
HSAWY11	5597	967489	1 - 494	15 - 508	
HSAXB47	5598	720536	1 - 795	15 - 809	
HSAXB84	5599	574172	1 - 402	15 - 416	
HSAXB95	5600	796006	1 - 316	15 - 330	
HSAXC60	5601	579044	1 - 401	15 - 415	F28958, F37192, and F00608.
HSAXD03	5602	924900	1 - 241	15 - 255	
HSAXD08	5603	959939	1 - 369	15 - 383	
HSAXD18	5604	575543	1 - 126	15 - 140	AL109628.
HSAXD73	5605	574274	1 - 383	15 - 397	R63784.
HSAXD75	5606	526777	1 - 339	15 - 353	AC004675, and AF088219.
HSAXF03	5607	924899	1 - 280	15 - 294	AA281106, and AC005488.
HSAXG18	5608	574165	1 - 375	15 - 389	T07213, AA483211, AI689564, AL046171, H81283, F35659, AA604326, AI446474, AA443065, AW086465, AA927637, AA593359, N55273, AA605274, AI313166, AW168433, AA610420, H57381, R53899, AA863453, AA640739, R77158, AW238016, AW238278, T69435, R79157,

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HSAXG30	5609	574280	1 - 456	15 - 470	AI469913, AC002375, AC007327, AC002365, AP000067, AC004551, AC004223, AC002364, AL008582, AL049844, AL049650, AC002300, AL022165, AL024498, AL021391, and AC005484.
HSAXI07	5610	953871	1 - 236	15 - 250	T53845, and C04682.
HSAXI47	5611	574159	1 - 444	15 - 458	AA846046, AA349016, AA230221, AA299100, AL119063, AA015948, N55076, AW194061, AI281622, AL046620, AW439724, H57802, W27084, AI446623, AA218874, AI251024, AA579281, AW069273, AA831919, AW083408, AA947352, AW029626, AI888050, AA639056, AI125143, AA714190, AA550959, AA018258, AI309059, AA351868, AA487209, AA338237, AA320380, T68762, AA338238, T73016, AA368329, AA701131, AI620014, AA363195, AA553409, M86139, AC005069, AC005531, AC007057, AC004997, AC004953, AC005585, Z99716, AP000116, AF111169, AC005911, AC007263, AL031291, AC005925, AL035462, AC007308, AC005015, AC005200, AL109952, AL022316, AC006285, AC004531, AC007243, AL035411, AC005839, AC004526, AL122020, AL133245, AC010168, AC006130, AC006538, AC004890, AC000134, AF143866, AC002553, AL022336, AC007637, AL135744, AC004685, AL031295, AC005799, AD000864, AR036572, U91328, AL035684, AC006512, Z97876, AC002429, AC005821, AL024498, AC007488, U62631, AC005368, AL049694, AL009181,

					AC005924, AC005409, AC002395, AC008062, AC006211, AP000563, AC005666, Z81364, AF001549, AC008041, AC005971, AL022318, AC004815, AP000211, AP000133, AC005346, AC006480, AL133448, AP000557, AL109984, AL022312, Z95116, AC004035, AC005362, AC006088, AL117355, AC005537, AC000353, AC004938, AF053356, U07561, AB020865, AC006312, AC006597, AL118516, Z49155, Z97056, AC005089, AC004796, AC004963, AL035071, AC005159, AC007207, AC005280, AC002425, AL049872, AB032988, AC004448, AC005153, AP000962, AL035072, L31948, Z97184, Z83840, Z98052, AC012085, AC007666, AC002401, AC005575, AP000049, AL022323, AC007371, AC003025, AC003048, AL079340, AL121658, AC005755, AL034553, AP000311, AC000052, AP000362, AC005049, AC005300, Z82212, AL022165, AC007193, AL033376, AC005589, U63721, AP000692, AC002094, Z93244, AC004084, AF139813, AC015853, AC002310, AL031659, AC005031, AC008101, AC004895, AL078581, AC005484, AC005943, AC006515, AC003071, AC002991, AP000048, AL021579, AL035454, AL035443, AC007546, AC016027, AF067844, AP000359, AC007793, AC016830, Z93017, AC004999, AL049759, U51561, AC001643, AF016898, AC004228, AC005730, AL050350, AC002319, AL022238, AC006077, U07562, L81394, AC010205, X99832, Z84466, AC004967, AC007286, AC010170, AL022328, AP000044, AL096712, AB023048, AC005520, AL031737, AC004858, AF109907, AC000029, AL049569, AC005588, AF001550, Z99127, AL049653, AC002551, AC006958, AL008726, AL035445, Z97053, AC001226, Z85987, Z97054, AC005516, AC002126, AC005182, AC002470, AC004805, U91327, AP000031, U73169, and AB001523.
HSAXI62	5612	531114	1 - 411	15 - 425	
HSAXI25	5613	964753	1 - 228	15 - 242	T98562, and AL031778.
HSAXL83	5614	866840	1 - 350	15 - 364	AC005971.
HSAXM33	5615	866837	1 - 368	15 - 382	
HSAXM34	5616	526939	1 - 242	15 - 256	AC003007, and AC005632.
HSAXM44	5617	574173	1 - 316	15 - 330	
HSAXM68	5618	754061	1 - 310	15 - 324	
HSAXM91	5619	784470	1 - 229	15 - 243	AC004815.
HSAXN51	5620	574286	1 - 458	15 - 472	
HSAXO52	5621	726053	1 - 585	15 - 599	AA866609.
HSAXO53	5622	727491	1 - 309	15 - 323	AW009820, and AA568195.
HSAXO65	5623	713784	1 - 244	15 - 258	AC002331, AL034350, and AL033397.
HSAXP51	5624	725673	1 - 325	15 - 339	
HSAXR08	5625	959441	1 - 662	15 - 676	T78958, AA553524, T78906, and AL021453.
HSAXR83	5626	866831	1 - 430	15 - 444	AW294886.
HSAXS44	5627	715896	1 - 327	15 - 341	

HSAYA60	5628	650857	1 - 356	15 - 370	AI393358, AW241990, T93203, AA826386, H92152, AA665661, AA137025, AA534089, AA071151, R00203, AA757621, AL138252, AF207550, AL031984, AC005081, Z81367, Z95115, AC008124, AL031291, AC004491, AC005529, AC002350, AL035685, AC004882, AC005622, AC005015, AL049576, AC006001, X86011, AC006515, AC004382, AL049569, U89335, Y10196, AC005011, AC008044, AF196971, AL022316, AL031846, AF001548, AL031864, U91326, AP000493, AC006449, AC005618, AC003041, AL133304, AL031283, AC004536, AC007240, Z97632, and AC003010.
HSAYA80	5629	751139	1 - 620	15 - 634	AL031733.
HSAYA95	5630	856883	1 - 406	15 - 420	
HSAYC17	5631	663910	1 - 590	15 - 604	AF062359, and AC004049.
HSAYC39	5632	705409	1 - 362	15 - 376	
HSAYC84	5633	723425	1 - 425	15 - 439	
HSAYG62	5634	745692	1 - 390	15 - 404	
HSAYH09	5635	971427	1 - 613	15 - 627	
HSAYH38	5636	731434	1 - 737	15 - 751	AC003663. AI431434, AW162288, F13749, AI696793, AI245693, AI537538, AA284247, AL119691, N69462, AA176605, T06207, AA720732, AW304580, AW408767, AA486877, AA937427, AA524616, AA879053, AI866911, AL046746, N24909, AA448838, AI751162, AA493226, N22058, AW270258, AA587991, AI040051, AA806796, Z79422, U67810, Z30979, AC007040, AL031848, Z22650, AL049872, X55931, AL031282, U57005, AC002347, X74558, Z97206, AC006130, AC005786, AC005089, AC006241, AC006441, AL133382, AL033522, AC002301, Z83844, AC007845, AC000159, AC000080, AC004854, AC004858, AC004821, AL096701, AL031228, AL034420, AC003110, AC016025, AC006273, AC007242, AL135783, AC004019, Z94044, Z85986, AL049780, AC005280, AC007435, AL049869, AL133243, Z83826, AC000025, AC005527, AL024498, AL135744, AC004263, Z69917, AC000118, AC004974, AC004526, AC002544, AF109907, AL121658, AC002554, Z85987, AC004067, AC006312, AC005696, AC005663, AL139054, AC002369, AC005486, AC002404, AC002425, AL034423, AL122020, AC005778, AC006120, Z30994, AC004598, AC002395, Z84487, AL096791, AC005921, AB026906, AC005348, AC005920, AC006160, AC016831, AL031686, AJ246003, AC005209, AC005940, AP000503, AL031311, AL050312, AC005071, AL133448, AL031255, AC009044, AL022336, AC007057, M63796, Z93023, AC005288, AL080243, AC006064, AC004499, AC002350, AL008582, AL035587, AC007226, AC005529, AC005939, AC005225, AC004257, AL008635, AC002455, AC003029, AJ011930, U63721, AL022238, AL049830, AF045533, AL022318, AC004752, AC006001, AC004601, Z83851, AC007388, AL109984, AC005722, AC006211, AC000052, AC007731, AC005684, AL035361, AC005954, AF134726, AF001549, AB000882, AL034402, AC005500, AP000509, AF205588, AC005179, AC005387, AC004834, AC003042, U63630, AC004449, AL035652, Z95114, AC005632, AC007308, AC006126, AC007773, AC003109, AF129756, AC016026, AC004791, AF064864, AC004647, AC004890,

						AC003982, AP000506, AC005520, Z98048, AI031276, AC005899, Z82179, AC004815, and AL049694.
HSAYK03	5637	881282	1 - 430	15 - 444		
HSAYK26	5638	681730	1 - 343	15 - 357		AL049569.
HSAYK79	5639	699056	1 - 356	15 - 370		
HSAYL46	5640	720352	1 - 593	15 - 607		AI797238, and W85776.
HSAYL64	5641	765847	1 - 346	15 - 360		
HSAYL72	5642	951025	1 - 267	15 - 281		
HSAYL93	5643	920778	1 - 336	15 - 350		AL031657.
HSAYM75	5644	719241	1 - 351	15 - 365		
HSAYM91	5645	959486	1 - 362	15 - 376		
HSAYN79	5646	471037	1 - 665	15 - 679		
HSAYO71	5647	745703	1 - 339	15 - 353		
HSAYR35	5648	675897	1 - 212	15 - 226		D83781.
HSAYS26	5649	681725	1 - 372	15 - 386		AI824918, C14298, D51213, D80168, D80949, D59627, D51079, D80064, D59695, D81111, D52291, D59484, D58246, D45273, D80228, C16955, T03048, D80219, C14407, D59619, C14227, D80210, D80240, D59503, D80290, AW360780, D80258, D80014, D81030, D80212, D58101, D80439, D57483, D59889, D59653, D80195, T11417, C15076, D80251, AI535686, D80166, D80188, AW377669, AA305409, Z33452, D59859, D59610, AI557774, D80366, D80196, D51423, AW352172, D51799, D80253, C14389, D80024, D80247, D80045, C14077, D52059, AA305578, D80269, D80022, D58283, D51022, AI557751, D80391, D80164, D50979, D59787, D59502, D50995, C14331, D59467, D59275, D80043, D80227, D80241, D80133, D80157, D59927, D81026, D80302, D80038, H67866, D80193, AA514184, T02974, H67854, C14014, D51060, D51053, AA514186, AW377661, D80378, D80268, D80248, C05763, AI525216, C06015, AA514188, AI525228, D51103, C05695, Z21582, D51221, D80522, C75259, C14973, F13647, AA809122, D59551, C03092, D59474, AI525238, C04682, N66429, C14344, D51759, Z30160, D59373, D59317, AI525215, AI525222, C14957, D45260, T03116, C14046, AI525912, AI525969, H67858, AI525235, AI525920, T02868, C13958, D60010, AI525917, AI525242, AI535961, D31458, AI525239, D50981, AI525227, F13796, AI525923, AI525978, AI525219, AI525237, AI525903, AI525925, AR016808, X64588, AB010386, A62298, AR018138, A84916, A62300, AJ132110, AR008278, AF058696, AB019242, U37689, A82595, I81198, AB028859, AB002449, A47134, AR060385, I14842, AR008277, AR008281, I79511, AR054175, and X72378.
HSAYS54	5650	730688	1 - 569	15 - 583		AA256081, AA594396, and AI035684.
HSAYW12	5651	856909	1 - 391	15 - 405		AI809688, and AC007201.
HSAYW75	5652	866818	1 - 290	15 - 304		
HSAZC11	5653	964994	1 - 343	15 - 357		

HSAZC18	5654	666442	1 - 362	15 - 376	H92704, H94751, AA070456, R92658, AA465689, AA587113, Z85988, Z82188, AP000466, AL035461, U73641, AC005057, AC005484, AC004797, Z92709, AC005549, AP000501, Z84466, AL096791, Z98304, AP000155, Z68164, AC005370, AC005746, AF001549, AC007023, AC007637, AC004596, AL109798, Z82172, AC004253, AL035249, Z94044, Z98946, AF064483, AF064484, AL031774, AF067844, AL109627, AC002314, AC006077, AP000124, AP000171, AP000056, AP000330, AL109628, AP000193, AP000033, Z82194, and AC001226.
HSAZC33	5655	702423	1 - 355	15 - 369	AP000269, AP000032, and AP000103.
HSAZC41	5656	712326	1 - 334	15 - 348	AC007349.
HSAZC69	5657	757577	1 - 217	15 - 231	AA601919, AW130614, AA653964, AA828680, AA551509, AA775416, W07032, AI372413, AA428414, AA593060, AA663634, AA723017, F26152, T28550, AI252207, AI510838, AA658235, AA828704, AA344959, AA634227, N43757, AA486680, AI284684, AA025083, T52732, AA450199, C19058, AA320748, AI921649, AA310158, AI376100, AA365347, AA634855, AA301813, AA501600, AI254153, AI453383, AW074059, AI356904, AI564284, AW304531, AA326441, AI547286, AI922654, AA989126, AA776936, AW247132, AI216799, AA776921, AI270149, AA465321, AA372875, AI378729, AL037554, AI079667, AA372106, AI251949, C17838, AL037910, AI254626, AI251996, AI252979, AI254937, AA828984, AI254440, N70442, AI254798, AA669634, AW269639, AI252112, T47348, AW086251, AI252828, AA639326, AI857261, AA984111, AI251380, AI251298, AI251598, AI570138, AI252933, AI254658, AI223508, AA535661, AI241970, AI254673, AA083136, AW086334, H58672, AA353595, AI251976, AA632612, AI270343, AI251968, AA584749, AW086356, AW086335, AL133448, AL031587, AC004230, AL049613, X03272, AC011604, AL109798, AL049830, AC002073, AC006064, L42240, AC006128, AL079340, AL031736, AL078474, X98288, AB017602, AC005703, AC005516, AC006141, AB016897, AC002286, AC002124, AP000359, AP000692, AL121603, AJ002227, Z73358, AP000310, Z99755, M62424, AR025392, AF131217, AL035681, AL021579, AC005911, AL035684, AL109984, AC004858, AC006165, AL035413, AC004841, U46117, U66059, AC005736, AC006277, Z15025, AC002041, AJ006995, AL008638, AC006449, AC005215, AC004741, AC007688, AC004817, AF190465, U95740, AL109939, AC004383, AC005071, D00591, AF109907, AC004647, AP000116, AL031722, AC005533, U47924, AC016026, AC005251, AC000392, AC004941, AC005358, AC004010, AL121934, AC004907, AC005971, AP000553, AC009516, AC006312, AL031846, AL109799, AL049757, U73641, AC004098, AC000095, Z82182, AL035464, AC004990, AL021918, AL079295, AP000252, AC006464, Z82190, AC003977, AL049776, AB023051, AL031178, AC004712, AC006040, AC004895, AC004685, AC006455, AC006285, AP000212, AC007536, AC009300, Z98884, AC004478, AC006241, AC005701, Z97352, U96409, AL009031, Z98950, AL021546, AC006116, AC002326, AF124731, AL008629, AF064861, AC005838, AP000512, AC004814, Z86061, AC005368, AC006538, AL022320, AC005565, Z75890, AC003003, AC002527, AC000353, AC005288, AC006084, AC005837, AP001038, AP001040, AP000141,

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HSZC70	5658	866814	1 - 224	15 - 238	AW170254, AA329068, H85372, T85640, M85706, T05004, D82407, and AL042605.
HSZC72	5659	509611	1 - 352	15 - 366	AA460367, T34066, AL810488, AA632869, AL360630, AL823533, AL823535, AA837325, T10218, AL038977, AA363957, AW070476, AA613623, AL281401, AA748102, T05617, AA557911, D82321, AL078409, AW169414, AL312424, AA525332, AL379978, AL292317, AC008928, AC008124, AC009509, AC006079, AL008715, AL031283, AC002045, AC004859, AC006121, AC006016, U95740, AC004750, AC005568, AC006381, AC002365, AF123462, AC004668, AL022165, AC004703, AC006487, AL034421, AC008134, Z95703, AC007551, AC004552, AP000503, Z83840, AF134726, AC007559, AL020998, AC005885, AL117338, AC005702, AP000350, AC005952, AC007226, AC005829, AC002470, AC004941, AC009464, AC007199, Z98749, AC005621, Z98036, AL049843, AL049759, AC005409, AL050308, AC005349, AC007193, AL080243, AL080250, AC006064, AC004990, Z98950, AL050322, AC007395, AF109907, AC005217, AL035079, AC002984, AD001527, AC002996, AC007308, AC002039, Z98048, AP000008, AP000704, AC022517, AC005531, AL049776, AC002395, AC005512, AL035420, AC002472, AC002477, AL121591, AP000308, AL031186, AP000048, AC004656, AC004695, AC004821, AC005696, AC004929, AC003029, AC009263, AC003071, AC004159, AF031075, Z83839, AC006323, AC004002, AC005856, AC005914, AC003682, AC007386, AC006255, A98026, Z81000, AP000279, AP000106, AP000038, AC002431, AC007388, AC003035, AC004817, AL022151, AF045555, AL034369, Z93241, AP000353, AC001231, AC002381, AC005081, AL035070, AC008072, AF002994, AC004042, Z82190, AL031466, AC002407, AC006061, AC005800, AC006006, AC004843, AC007681, AC004383, AC002312, and AL133246.
HSZD30	5661	692708	1 - 300	15 - 314	
HSAZE47	5662	887420	1 - 503	15 - 517	D57483, D58283, D51423, D80043, D59275, D80253, D80166, D80195, D80022, D59619, D80210, D51799, D80391, D80240, D80227, D59859, D59502, D59889, D80212, D80196, D80188, D80219, D80038, D59927, D81030, D80269, C14331, C14389, D80366, D59787, D80193, D50979, D59610, D59467, D80164, C14429, D50995, C15076, AA305409, D80024, D80378, D80241, D80045, T03269, C75259, C14014, D51060, D80251, AW178893, D80134, D51022, AW179328, AA305578, AW177440, D81026, AA514188, D80248, D51250, F13647,

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HSAZE66	5663	725704	1 - 510	15 - 524	AI571656, T48723, F27015, AI701080, AI471455, AA946848, AI687343, AI961536, AA657835, AA728894, AW440368, N41775, AI076236, AI801649, AI583291, AA130647, AA992126, AA514020, AI356440, AW157005, AI028510, F23327, AA533054, R69819, AA298362, AW083934, AA297776, AI583142, F30158, AA485289, H79308, AI206078, F00688, AI205181, H62550, AA527954, AI824476, AI340151, AA599710, H12857, T47138, AA608561, AI823705, AI925065, AI025930, AW088631, AA232928, N68449, T50363, AA262769, AA487892, AW238253, H24957, AA559205, AI880324, Z84487, AL049776, AL031602, AL035457, AC007371, AC005189, AC006487, AC005332, AL009179, AC008069, U80017, AC002432, AC005696, AC006211, AL034429, AC007684, AC006948, AC004383, AL022323, AC020663, AC008372, AC006126, AC006312, Z98200, AC006079, AC004099, AC002310, AC007327,

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HSZAF25	5664	787070	1 - 386	15 - 400	AC004504.
HSZAF47	5665	719615	1 - 413	15 - 427	
HSZAG04	5666	927161	1 - 398	15 - 412	AA885793, AL1719268, AA147540, AA156247, AW084036, AA493947, AL049245, AF134726, AC006130, AC006084, AC007216, AF146367, AL021578, Z97196, AF124523, AP001053, AP000501, AC004923, AL049713, AL078460, AC005587, U91322, AC004814, Z81365, AC002978, AB020868, AL021395, AL133245, and AP000555.
HSZAG53	5667	727729	1 - 281	15 - 295	N63363, AC004216, AC005682, AL031291, AL109798, AC006263, and AL033527.
HSZAH64	5668	730784	1 - 334	15 - 348	
HSZAI04	5669	927167	1 - 488	15 - 502	
HSZAK83	5670	781717	1 - 196	15 - 210	
HSZAN07	5671	847802	1 - 387	15 - 401	AI561116, AA507682, AA492198, AA301813, AA601995, AA601623, R24915, AA657672, AA723017, AI824562, AI049986, N66026, AW268300, AI537955, AA634013, F17700, F23327,

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HSAZP34	5672	796044	1 - 482	15 - 496	
HSAZQ04	5673	927174	1 - 438	15 - 452	
HSMBA04	5674	927420	1 - 320	15 - 334	
HSMBA53	5675	727597	1 - 332	15 - 346	
HSMBB53	5676	964887	1 - 142	15 - 156	
HSMBD29	5677	690390	1 - 560	15 - 574	
HSQFR23	5678	676362	1 - 425	15 - 439	
HSVAD19	5679	668590	1 - 118	15 - 132	

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HSYBC05	5680	920174	1 - 644	15 - 658	T20203, AA251849, and AW152678.
HSYBF51	5681	883699	1 - 446	15 - 460	AI035409.
HSYBL15	5682	660053	1 - 551	15 - 565	AA370052, and AF021935.
HSYBL77	5683	727842	1 - 334	15 - 348	T96708, and AW179197.
HSYCX75	5684	870939	1 - 363	15 - 377	
HSYDF85	5685	783730	1 - 418	15 - 432	AA381777.
HSYDP04	5686	970789	1 - 490	15 - 504	AF113615.
HT1SC71	5687	792728	1 - 442	15 - 456	
HT2AB63	5688	518444	1 - 339	15 - 353	AA380880, AA380894, AA372958, AA730872, AA480792, AI824787, AA345665, AW075897, AW085751, AA297498, AA565338, AA147397, AA070614, AL046110, AW087537, AA330435, AA555131, AI285521, AI866422, AA551968, C14614, AI049845, AA586474, AI720671, R22196, AI338992, H48670, AI754064, AI086603, AI684335, AA071173, AW173443, AC006512, AC006130, AC005392, Z81308, AL049758, AL031291, AL133448, U29462, AL008723, AI031255, AP000553, AC009516, AC006597, AP000511, AC005048, AC009263, AC002395, AI010770, AL031427, AC005081, AC007055, AC004542, Z93023, AL022316, Z95116, AC005694, AC006449, AC005082, AL031315, AC007199, X69907, AC007899, AC005730, AL049712, Z86090, AC007358, AC015853, AL034430, AC005527, AL049757, AC005828, AF053356, AL008718, Z93783, AC004821, AL117338, AL079295, AC005736, AL031114, AC004875, AC002470, AC005280, U78027, AL132857, AC004841, AP000201, AC004998, AC005358, AL035422, AC005033, AC004796, AC007688, AL022400, AL122020, AL031311, AP000097, AC005666, AC005297, Z97056, AC005154, AC007227, AP000240, AC005529, AC016831, AC006544, AF030876, AL139054, AC005247, AC004030, AC005180, AF196779, AL034420, AC007684, AC007845, AL020993, L78810, AC007686, AC008079, AF001550, U52112, AC016025, Z99716, AC016026, AL031659, AL023807, AC005067, AP000350, AC005399, AC006261, Z82215, AL022165, AF067844, AC003108, AL049653, AL078463, AC004019, AC005245, AC005969, AC004079, AC005209, AC002316, AB023050, AL121655, AL132987, AC003101, Z98048, AF205588, AL049874, AL096791, AL022398, AC004526, AC004651, AL022328, AC006050, AL022322, AC005291, AC004223, AC005274, AL022313, AL031432, AL035658, AC002045, AL024508, AC007637, AL121603, AC005562, AC005914, AC007731, AL133163, AC004150, AC006211, AC004983, AC008044, AL049777, Z98742, AC004854, AC004812, AC007685, AC007397, AC005102, AC005015, Z95113, AC005823, AC007541, AL035455, AL031767, AC005243, AC008282, AC007240, AC006543, Z93017, AC007253, AL021154, AP000248, AC003667, AC003007, AC007676, AC006167, AC020663, AL050321, AC004834, AL096763, AC011311, AC003962, AP000512, AC007993, AL031575,

HT2SA18	5689	522773	1 - 430	15 - 444	AL135744, AC007666, U85195, AL021938, Z68287, AC005839, AC002504, AL109827, AL035408, AC005944, AL022097, AL022336, AC008372, Z93930, AC005003, AL133371, AE000658, AC004659, and AL109628.
HT2SF05	5690	932853	1 - 534	15 - 548	N55479, AA701600, and AA249475.
HT2SF45	5691	522759	1 - 307	15 - 321	AC005137.
HT2SG56	5692	870913	1 - 432	15 - 446	AW007604, and AL021938.
HT2SG66	5693	522753	1 - 320	15 - 334	
HT3AG28	5694	973645	1 - 225	15 - 239	AW297280.
HT3AH13	5695	527913	1 - 406	15 - 420	AA601968.
HT3BA84	5696	509190	1 - 398	15 - 412	AA380995.
HT3BB93	5697	530750	1 - 252	15 - 266	
HT3BC30	5698	691009	1 - 327	15 - 341	
HT3BF34	5699	534887	1 - 280	15 - 294	AC004111.
HT3BG05	5700	932557	1 - 352	15 - 366	
HT3BG34	5701	527779	1 - 229	15 - 243	
HT3SA07	5702	954360	1 - 315	15 - 329	
HT3SB56	5703	958400	1 - 939	15 - 953	AA479273, AI831952, AI674793, AI369244, AI762813, AI498858, F25843, AA694320, R85554, T85554, R87717, R28878, and AF001548.
HT3SF46	5704	522600	1 - 300	15 - 314	
HT3SF93	5705	791423	1 - 515	15 - 529	AA143077, AI560342, and AC005781.
HT3SG30	5706	522532	1 - 353	15 - 367	
HT4CF32	5707	887174	1 - 1695	15 - 1709	AI347001, AI343380, AI693849, AI829933, AI394727, AA604808, AA729929, AI693841, AW293065, AA748867, AI745694, AF116509, AF116510, AF116508, AF218235, AF147782, AF175387, and Z84484.
HT4CL83	5708	974117	1 - 476	15 - 490	
HT4CM20	5709	805558	1 - 435	15 - 449	H50788, AW404210, AA355417, and AB018335.
HT4FN75	5710	686279	1 - 114	15 - 128	
HT4FS23	5711	952837	1 - 231	15 - 245	
HT4FV06	5712	935056	1 - 73	15 - 87	
HT4GF30	5713	870887	1 - 395	15 - 409	AI871007, AA773904, AI127475, AI523587, AI862655, AI830621, AW134689, AI768600, AW274750, AA142876, AI825831, AA633463, AI307774, AI916645, AA576383, AA143146, AI334590, AI867665, and AI867677.
HT4GJ85	5714	909971	1 - 514	15 - 528	AA306449, Z97832, and X96705.
HT4SB45	5715	522502	1 - 385	15 - 399	
HT4SE86	5716	531561	1 - 409	15 - 423	AA381059, and AC005344.

HT4TB12	5717	870955	1 - 263	15 - 277	AA236660, AA381041, AW001285, AI372981, AI819838, AI719948, AI571409, AI597639, AI56384, AA827059, AI356548, AW275578, AA971646, AW274489, AI863800, AI806948, H41568, AI311085, H41515, AA953361, AI498787, AA701412, and AD000671.
HT5AD70	5718	960050	1 - 154	15 - 168	AA381071, AA381084, and AA380862.
HT5AH76	5719	921539	1 - 120	15 - 134	
HT5AI96	5720	728624	1 - 76	15 - 90	
HT5EA69	5721	952359	1 - 475	15 - 489	R34942.
HT5EU04	5722	531205	1 - 467	15 - 481	AF017104, and AC016831.
HT5EU59	5723	739092	1 - 341	15 - 355	
HT5FD31	5724	697721	1 - 323	15 - 337	
HTAAA68	5725	733636	1 - 307	15 - 321	AA381204.
HTAAA74	5726	960479	1 - 777	15 - 791	AA167683, AA381245, AA381209, AA381208, and AC000159.
HTAAC05	5727	932913	1 - 432	15 - 446	AA381237, AA381536, AA381939, AA381906, AA381885, H72587, H45806, AI183392, AA569448, AA287046, AA355128, AI936092, AA740219, AA745373, AW128881, AI590404, R53995, N76031, AA381687, AA767571, C16638, AW269071, AI419337, AI361090, AA363968, AW271095, AW302832, AI421950, AI284536, AI251563, AI252141, AI733946, AW021007, AI733930, AI792695, AI792746, AI792842, AW026305, AI252190, AI792856, AA485289, AW151549, AA373861, AW090629, F09631, AA206594, AA453151, AI246061, AA486352, H68328, AW440709, AI979126, AW117895, AI054090, T65131, AI251241, AI249853, AI884861, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA598608, AA491361, AI354341, AW337805, F25640, AA814719, AA078088, T89662, AL042869, AA729004, AA381652, AA381713, F30497, AA610530, AI254781, F00211, AA297930, AA020882, AW086117, H38817, R01095, AA304790, T40550, AA878407, AI914558, AA493701, AA526673, AA295893, AA295899, AI821025, AI359368, AI821314, T10218, AA491722, AW087226, AA664248, AA780648, AI245693, AA551548, T41166, AL031589, AP000359, AC005231, AC005546, AL121754, U07562, AL023553, AC005911, AC005781, X59875, AC005380, AC006130, AL031666, AL009179, AC008115, AC006538, AL049540, AC004834, AC004765, AC004383, AF131939, AC005602, AC004891, AC006251, AL035413, U63721, AL035681, AF015416, AL021391, AL080243, AC007052, AL022726, AC006536, AC005208, AL035410, AC002395, U91323, AL033527, L47234, AL049713, AC004930, AC004825, AC004525, M20902, U36755, M26434, Z85987, AC010072, L29074, AC007066, AC005799, AF064861, U89335, X02883, AL035450, AC004966, AC006121, AL096801, AC006539, AC007934, AJ011930, AC003051, AC019014, AC006137, AL034582, AC007421, AC006141, AL031983, AL031650, AC003080, AC007450, Z69706, AC004778, Z73417, AL096774, AL035398, AC006077, AP000068, AP000008, AL031659, AC004230, AC004804, AL031285, AC007488, AC007226, AC005618, AC005746, U62293, AC004975, AC005057, AC002072, AL008631, AL021367, AC005913, AC002350, AC002365, AB033012, AL031777, AP000126,

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HTAAG63	5728	578537	1 - 447	15 - 461	AA503675, AA381181, AA492325, AL281401, H25626, AA516045, AC005193, AL132712, AC002314, AC005280, AD000671, AC007308, AC006077, AC005971, AC005480, AF108083, AC005206, AC005261, AC005667, AC005225, AC002316, AL049570, AL034418, AC004929, AP000688, AB026899, AC002559, AJ011930, AC005785, AL117338, AC004859, AL022313, AC006023, Z84487, U91323, AC003962, and AC002377.
HTAAP36	5729	629270	1 - 286	15 - 300	AA381924, AA381526, AW006162, AL150151, AW003573, AW272490, AA382744, AA676670, AA400188, AA608773, AA148109, AA913954, AA905227, AA400346, AW241479, AL654709, AL214730, AW207216, AA905243, AL554052, AL208940, AW235898, AW274535, AA969339, AL1913386, AL635370, AW207054, AW161786, AP000553, and AF060862.
HTAAP96	5730	518454	1 - 223	15 - 237	AA381811, AA381271, and AA381671.
HTAAQ82	5731	952304	1 - 602	15 - 616	AA381587, AA381772, and AA381998.
HTAAU76	5732	508527	1 - 306	15 - 320	AA381744, AA381925, AL045797, and AL045505.
HTAAU78	5733	870884	1 - 117	15 - 131	AA381390, AA381725, AA319995, and AA381962.
HTAAW11	5734	961231	1 - 235	15 - 249	AA381616, AA381615, AA381569, and AA382076.
HTAAW46	5735	719422	1 - 264	15 - 278	AA381409, AA381410, AL133180, AL459866, AC006039, AC004905, AB020863, AC007680, AP000557, AC002395, AC004895, AP001053, AC005924, AC006210, AC005332, D86077, AL023575, AL139054, AL031276, and Z84719.
HTAAW81	5736	535295	1 - 295	15 - 309	AA381642, AA381664, AA381728, AA381608, and AA381961.
HTAAW89	5737	575304	1 - 132	15 - 146	AA381991, AA381750, AA381819, and Z84474.
HTABE51	5738	960936	1 - 275	15 - 289	AA381803, and AA381336.
HTABE93	5739	509675	1 - 288	15 - 302	AA381313, and AA381844.
HTABF52	5740	535399	1 - 302	15 - 316	AA381789, AA381881, and AA381457.
HTABF72	5741	508952	1 - 315	15 - 329	AA381500, and AC004885.
HTABG03	5742	960931	1 - 327	15 - 341	AA381713, AA381652, AA381821, AA381687, AA381686, AA381597, AA381596, AA381847, AA381685, AL559282, AA578626, AA373861, AA229655, H68631, AC005838, AC002544,

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HTABG44	5743	508366	1 - 128	15 - 142		AA381864.
HTABG83	5744	518355	1 - 164	15 - 178		AA381660, AA381544, AA381729, and AC004242.
HTABG87	5745	940153	1 - 530	15 - 544		R01633, AA381661, AA381405, and AR044136.
HTABJ93	5746	508441	1 - 250	15 - 264		AA381933, AA381875, and AA382012.
HTABK73	5747	835945	1 - 339	15 - 353		AA381761.
HTABN17	5748	954400	1 - 334	15 - 348		AA381836, AA381752, AA381908, AA382062, AA381970, AA382016, and AA381780.
HTACL04	5749	925571	1 - 338	15 - 352		
HTACN31	5750	974314	1 - 394	15 - 408		AL080243.
HTACN96	5751	975073	1 - 580	15 - 594		
HTACP19	5752	537439	1 - 89	15 - 103		AI968466, AB002312, and AB032254.
HTACP52	5753	968997	1 - 563	15 - 577		AA287087, AA651846, AA601230, AI253519, AA501906, AA256949, AL079769, AI925776, AA479930, AA491864, AA159046, AW402143, AA557604, AA828046, F11809, AI745457, AA501614, N24321, AA363225, AI278972, AA904231, AA526193, AA747632, R70326, AC007934, AF190465, AC004530, AC002565, AC004837, Z93930, AC002404, AC006537, AC006112, AC005280, Z82215, AL109865, AL049795, AC007676, AC004821, AL020993, AC003046, AC003982, AC006241, AC005217, AF037222, AC005288, AC004520, AL031733, AL133163, AC011604, AC007239, AL031666, AC004953, AC006101, AC007262, AC005531, AC002470, AF053356, Z23091, AL139054, AC003044, AL021391, AL050307, AC005304, AC005702, AC005829, AC002073, AC004228, AF165926, AL035089, AC006115, AC004814, AC006160, AC005529, AC004167, Z68282, AC007298, AL031657, Z86090, AC006965, AC007551, AC004686, AC007537, AC006449, AL021154, AL117592, L78810, AC007229, AF196779, AC004000, Z92542, AC005632, AC002123, AL021331, AC000085, Z85999, AC006197, AC004638, AL033527, AC004884, AL023879, Z83844, AC007057, AL049872, Z99716, AB023049, AC005971, AC005730, AC002347, AL034411, AL035086, AL080243, AP000512, AL033397, AC006033, AC005527, AP000961, AP000704, AL035450, AL078477, AC004883, AC002312, AC005844, AC004019, AL049694, AC007151, Z93244, AC005138, AP000555, AC005486, AL035652, AC005355, AC000092, and AC005746.
HTACR92	5754	918250	1 - 295	15 - 309		
HTACS45	5755	537433	1 - 109	15 - 123		AC000159.
HTACS46	5756	537435	1 - 284	15 - 298		
HTACT29	5757	537377	1 - 301	15 - 315		
HTACU21	5758	504612	1 - 130	15 - 144		AA381989, and AI225782.
HTACU80	5759	777608	1 - 194	15 - 208		AA308896, AA299220, Z83840, AF134726, AL078644, and AC006026.

HTACW17	5760	961560	1 - 313	15 - 327	AI479338, AW193956, AW204083, AI942363, AA286986, AW135497, AI066644, AI436295, AA018555, AI333268, AW182032, AA278842, AI807168, H43862, AA761285, AW293924, AW293036, and AW250094.
HTACY32	5761	531492	1 - 431	15 - 445	
HTACY49	5762	557836	1 - 350	15 - 364	
HTADA22	5763	507146	1 - 367	15 - 381	AC006486, and X97703.
HTADC11	5764	967577	1 - 335	15 - 349	H04057, R81380, and AI087942.
HTADH05	5765	932470	1 - 116	15 - 130	
HTADH61	5766	955245	1 - 210	15 - 224	
HTADI11	5767	964944	1 - 226	15 - 240	
HTADI93	5768	870820	1 - 259	15 - 273	
HTADI25	5769	537427	1 - 295	15 - 309	Z94160.
HTADI36	5770	773764	1 - 447	15 - 461	AW411107, and R82922.
HTADK40	5771	537423	1 - 447	15 - 461	
HTADM61	5772	550342	1 - 460	15 - 474	AA306284, AA348482, U51715, AI910293, AA337287, AA319313, AA486319, AL039891, AI936644, AI634534, AI693668, and D87442.
HTADQ83	5773	734996	1 - 228	15 - 242	
HTADQ93	5774	537418	1 - 110	15 - 124	
HTADR41	5775	934435	1 - 347	15 - 361	Z97989.
HTADW69	5776	537428	1 - 293	15 - 307	
HTAED78	5777	761591	1 - 413	15 - 427	AL133243.
HTAEF32	5778	927101	1 - 579	15 - 593	
HTAEH74	5779	974303	1 - 365	15 - 379	
HTAEJ77	5780	930978	1 - 414	15 - 428	AA381361.
HTAEK78	5781	773763	1 - 518	15 - 532	
HTAEL90	5782	958220	1 - 134	15 - 148	
HTAEO84	5783	537374	1 - 91	15 - 105	AL109758.
HTAER18	5784	537421	1 - 272	15 - 286	
HTAES82	5785	537373	1 - 342	15 - 356	AC005669.
HTAET86	5786	969532	1 - 284	15 - 298	
HTAEU76	5787	767963	1 - 556	15 - 570	AA533823, AA887181, R44042, AI064955, H05828, AA613954, AA654852, AI311234, AA424170, AL034399, AC004875, AC005924, AL031427, AC006343, AF111168, AC006241, AC009399, AC007277, AC005095, AL049780, AC005701, AC005552, AC005903, AL050332, AC006057, AL024508, AL031681, AC006530, AL109623, AC007207, AL050334, AL121655, AC008045, AC007014, AC007193, Z93022, AL031291, AL034548, Z99716, AP000281, AP000039, AP000107, Z98884, AL109628, AC005347, AC005364, AF109718, AC005156,

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HTAEV65	5788	838803	1 - 588	15 - 602	AL118881, and AA569067.
HTAEW87	5789	971526	1 - 323	15 - 337	AA381722, AA381242, and AA381829.
HTAEW95	5790	780986	1 - 449	15 - 463	
HTAEX66	5791	881092	1 - 474	15 - 488	AA381840, AA381799, and AA381872.
HTAFA06	5792	934570	1 - 417	15 - 431	AC004551.
HTAFA66	5793	868433	1 - 622	15 - 636	
HTAFC37	5794	973085	1 - 1047	15 - 1061	AI867175, AI654803, AI825698, AI633921, AI692176, AI632546, AI339492, AI003917, AA669506, AA968579, AA889250, and AI634422.
HTAFC76	5795	767976	1 - 470	15 - 484	AC005480.
HTAFD63	5796	744409	1 - 54	15 - 68	
HTAFE69	5797	944409	1 - 701	15 - 715	AI962030, AL038842, AA765925, AA832444, AA664043, AL079734, AA502991, AA084609, AA581247, AA452887, AI590906, AI066646, AA493226, AI335995, AI263264, AI755202, AA736695, AI568088, AI357823, AI955029, AI749527, AW328000, AC006312, AL121595, AL031848, Z98200, AC007263, AP000501, AF111168, AC006512, AL035587, AC002375, AC005952, AC004150, U91322, AL049712, AL133353, Z98051, AC004975, AC009784, AC002115, AC005004, Z93930, AL133244, AL080243, AC004821, AC006121, AC005412, AF134726, AF031078, Z93023, AC005527, AC004895, AC005255, AC008115, AC006468, AP000552, Z94721, AF030876, AC004891, AL049776, AC005702, AP000511, Z95331, AC005102, AL096794, Z85987, AC004967, AC004745, AC005920, AC005736, AC004554, AC006380, AP000502, AC007011, AP000030, AC005971, AC004851, AL008583, AL021707, AC005197, AC006480, AC005409, AC004813, M89651, AP000212, AP000134, AC004913, AC005529, AL031680, Z97353, AC007225, AB023051, AL096791, U91326, AL021391, AC004859, AL109847, AC005513, U95742, AC005914, AC005089, Z98036, AP000362, AC007686, AL031767, AL031311, AL035461, AL008715, AF196970, AC005071, AC005784, AC006043, AL049839, U85195, AP000031, AC000134, AC006277, AC005082, AL031662, AC005288, Z98884, AL049829, AC002350, Z75889, AL021878, AC005081, AE0000658, AC007376, AC004797, AC005829, AC005028, AC006966, AC002301, AP000692, Z83826, AC006211, AC005924, AP000557, AC007731, Z94160, AC005500, AC002116, AC007193, AC006952, AP000512, AB017602, AL035071, Z85996, AL033525, Z83840, AC006511,

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HTAF90	5798	787604	1 - 369	15 - 383	R20183, AA485189, F06553, and AB030181.
HTAF11	5799	933028	1 - 325	15 - 339	AA381467, Z99297, and Z55213.
HTAF76	5800	767968	1 - 379	15 - 393	
HTAFG52	5801	974338	1 - 709	15 - 723	
HTAFG58	5802	870854	1 - 531	15 - 545	AW007759, H73550, AA584489, AA720702, AA644090, AI064864, AA847508, AW151541, AI017251, AA847427, AI446464, AL037910, AA702539, AA702080, AA608520, AA664604, AI061313, H93293, AW302709, AA555229, AA338234, AI040051, AA533281, AA629540, AI205181, AI537955, T05834, AI031759, AL038842, AL079869, F23327, AI473995, H63660, AI491867, AI004591, AA634786, W79504, AA523843, AA579427, AI095197, AA573131, AW238127, AA720582, AL045077, AW169038, AW438616, AI689385, AA425924, AL031228, AC005274, AL035458, AL035450, AC005358, AC021092, AC004242, AC005666, AF111168, AP001053, AL031005, AC005940, AL031668, AL135745, AC009247, AL034420, AC004895, AF053356, AD000092, AC005755, AL049697, AC004963, AC005971, AC008123, Z98051, AC003681, AP000115, AC007406, AL109984, AC004686, AL133448, AL031295, AC005921, AJ003147, AL049636, AF001550, AC005300, AF045555, AC005670, AL008732, AC003982, AL096701, AL078463, AC007308, AC004887, AC003083, AL049795, AF134726, AP000557, AC005703, AC005200, AC004472, AC005288, AC006213, AC005393, AL078611, AF217403, AL021808, AC004263, AC005969, AP000338, AC006960, Z82215, AC005083, AC008249, U95742, AF107885, AP000216, AC006050, AC006057, AC007102, Z93241, AF047825, AC007685, AL031311, AC007114, AL035423, AC002312, AC007182, Z84479, AC005828, AC005519, Z83840, AL022315, AC002126, AC002429, AC005209, AC005740, AC005244, AL078581, AC005774, AP000252, AC007226, AL078476, AL050338, AL022322, AC005086, AL009031, AC003682, AC006241, AC016830, U91327, AC002425, AC006273, Z93017, AL096791, AL110502, AC002565, AL049757, AC000379, AC005180, U95743, AC004765, AC005324, AC006515, AC007216, AL031053, AL022476, AF029308, AC006001, AL031429, U89337, AC005154, AC005859, AC007676, AC000090, AC007666, AL049843, AF039907, AC006023, AB001523, AC006430, AP000354, AC000041, AC005484, AC006039, AP000962, AL080241, AL049712, AL049776, AC007193, AL031584, AP000512, U85195, AC005220, AC004024, AC005535, AC005527, AC002326, AC007227, AL121603, AC004837, AC005015, AC008044, U15422, AC003692, AC006071, Z84469, AC003086, AC005412, AC005195, AC007214, AE000658, AL031432, AC004388, AC004883, Z84488, AC005482, AP000031, AC002470, AC005695, AC006195, AC000025, AC000052, Z69705, AP000152, AC006449,

HTAGA71	5803	870853	1 - 292	15 - 306	AL035494, AC007686, AL031283, AF129756, AL035249, U62317, AF091512, AL021807, AL022163, AC005907, AC004019, AC004754, AC006539, AF165926, AF227510, Z83846, AL031347, AC007041, AL080243, AC005242, AP000044, AP000112, Z84484, AC005821, AC004228, AL050318, AC005091, AC005913, AP000356, AF038458, AL139054, AC004646, AC006077, AC008071, AL049760, AC012627, AL035420, AL135783, AC010722, AC007191, AC005231, AL117354, AC006128, AL022318, AP000502, AC006958, AL022327, AC009516, AC007376, AC007160, AC009501, AL109827, AC005783, AC004099, AC007228, AC007731, AP000355, AC003111, AC007707, AC005500, AL030996, AC004797, AC003101, AP000359, AC002981, AC005212, AC002310, AL031133, AC005187, and AP000511.
HTAGB89	5804	974060	1 - 392	15 - 406	
HTAGC91	5805	963125	1 - 386	15 - 400	AL041135, AB023229, and AJ236582.
HTAGI29	5806	925699	1 - 418	15 - 432	
HTAGI53	5807	936117	1 - 193	15 - 207	
HTAGL61	5808	963182	1 - 524	15 - 538	AW299622, AA931204, H92418, and AC004849.
HTAGN04	5809	926501	1 - 620	15 - 634	R02305.
HTAGV46	5810	847777	1 - 564	15 - 578	
HTAGV49	5811	836078	1 - 507	15 - 521	AW070228, and AA669099.
HTAGZ11	5812	965867	1 - 459	15 - 473	AC006101, AF003626, AC004966, Z93930, AL035684, AL133163, AB013139, AC004815, AF047825, AC004612, AC004832, AL049776, AF069291, AC002551, Z86090, and AF049895.
HTAHL17	5813	860919	1 - 324	15 - 338	AA381758.
HTAHL49	5814	934013	1 - 490	15 - 504	
HTAHL12	5815	920332	1 - 544	15 - 558	
HTAHL28	5816	974030	1 - 399	15 - 413	
HTAHL45	5817	908949	1 - 649	15 - 663	R35096, R17249, D58283, D59502, D80195, D59275, C14389, C14331, D51423, D80038, D81026, D59467, D80164, D80227, D59859, D80022, D80253, D80166, D59619, D80210, D51799, D80391, D80240, D80043, C15076, D59787, D81030, AA305578, D80269, D51022, D80522, D50979, D80212, D80193, D80196, D80188, D59610, D80045, D80219, D59889, AA514188, D59927, D57483, C14014, D80378, D80366, AA305409, D80024, D50995, D80248, C14429, AW177440, AA514186, AW360811, D80241, D80251, D80133, D51060, AW178893, D80302, AW375405, D80268, T03269, AW377671, AW179328, AW366296, AW360844, AW360817, C75259, AW375406, D80439, AW378534, AW179332, AW377672, AW179023, AW178905, D80247, AW178906, AW177501, AW177511, AW378532, C05695, AW352171, AW352170, AW377676, D51103, D80132, AW177731, AW178907, AW178762, AW179019, AW179024, D58253, D59373, D80134, D51250, AW177505, AW360841, AW179020, AW178775, AW178909, AW177456, AW179329, AW369651, AW178980, AW177733,

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HTAHL76	5818	974300	1 - 470	15 - 484	<p>AW002350, AA428792, AW303008, AA602047, AW021627, AA730422, AI630283, AA297734, AW021583, AI349849, AA476397, AI590485, AI217936, T92271, AA236903, AI868384, C18521, AI932599, C18840, AI937125, AA092571, AA890425, AA526316, AA487621, AA715090, AI554758, AA488746, AI037052, H84675, AI564454, AI368256, AI635819, AA683238, AA831700, AI123396, AI370104, AA584733, AA483108, AA297769, AI045808, AI046156, AI819140, AA854993, AI525319, AW276835, AI036251, AA487417, AW068596, AI224093, AA719292, AI038473, AI754271, AA588001, AI755164, N64259, AW276748, AA564570, AA812141, AI088768, AI047429, N35602, AW177003, AA629872, AW149313, AI924872, AI890324, AI434686, AI037554, AA570230, AA486559, AA286669, AI046266, AA018283, AI766906, AI633479, AA431949, AI051457, AI828710, AW022608, AA370455, AI434186, AI249473, AW302950, AI138182, AW084445, AC005375, AC006930, AC005225, AC004234, AL049829, AC004087, AL022237, AC004675, AB002390, AC006537, AL030995, AC004150, AF111168, AF088219, Z97352, Z85987, Z83843, AC005730, AC007637, AP000700, U44395, AC004808, AL133245, AC002365, I44140, Z82206, AL023877, AC006019, AC004916, AC004527, U95740, AC000379, AL031602, AC000117, AL117258, U67221, AC002120, Z54072, AC004149, Z93023, AL078477, AL008633, AL031295, Z97987, Z84488, AC005598, AJ223364, AC004778, AL023882, U51561, AC005568, AC004257, U07562, AF017732, AC007360, AC006004, AL034451, AL049539, AP000345, AC004933, AL132712, AC004386, AL080243, U95743, AC005703, AL078638, AL021368, AL031259, AC005295, AL133249, AC005284, AC005291, AC005046, AP000253, AC007191, AC003086, AC006354, AC007685, AC006459, AF107885, AC002538, AR042836, AC006996, AC004755, U07563, AC011718, AP000126, AP000204, AC002124, AC012330, Z83841, AC008044, Z84466, AC004253, AP000244, AC007934, AC012099, AL133500, U50429, AC000076, AF038458, AC005911, AF155238, AL008631, AC004098, AC006518, AC007564, U47974, AF009660, AC004855, AC005183, AC006599, AL023578, AF015416, AL109827, AL031659, AC003962, AL035587, AC002477, AL033521, AL050325, AC004953, AL034548, AL034549, AC006987, Z98950, AC008249, U91322, AL049837, Z00017, AL078621, AL035069, Z54334, Z68289, AC004034, AL031393,</p>

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HTAHN29	5819	923115	1 - 752	15 - 766	
HTAHQ22	5820	870831	1 - 275	15 - 289	
HTAHQ94	5821	839505	1 - 506	15 - 520	
HTAHR03	5822	922772	1 - 417	15 - 431	
HTAHR06	5823	934062	1 - 451	15 - 465	
HTAHS10	5824	963183	1 - 415	15 - 429	
HTAHS21	5825	960795	1 - 503	15 - 517	AA381575, and AC002528.
HTAHV04	5826	926747	1 - 435	15 - 449	AI572619, AI814836, AI686747, AW167851, AI202106, H86259, H85857, AA059020, AI096537, and AC005757.
HTAIB11	5827	965835	1 - 246	15 - 260	
HTAIC05	5828	930951	1 - 806	15 - 820	W87576, AA694098, W87434, AI056858, AA676994, AA677352, R16832, AC006312, AF165926, and AI006997.
HTAID04	5829	926541	1 - 389	15 - 403	AA381501.
HTAIF70	5830	974062	1 - 476	15 - 490	
HTAIF78	5831	870785	1 - 727	15 - 741	AA251602, and AA381714.
HTAIK75	5832	870815	1 - 458	15 - 472	
HTAIQ39	5833	921729	1 - 418	15 - 432	
HTAIQ75	5834	870804	1 - 401	15 - 415	AC002400.
HTAIR54	5835	870814	1 - 712	15 - 726	H67194, and H67182.
HTAIU80	5836	968234	1 - 448	15 - 462	AC006372.
HTAIV79	5837	870874	1 - 505	15 - 519	
HTAJG31	5838	926731	1 - 439	15 - 453	
HTAJG65	5839	975260	1 - 452	15 - 466	
HTAJI01	5840	914899	1 - 244	15 - 258	
HTAJN08	5841	958057	1 - 146	15 - 160	R46278, R74243, and AA203640.
HTAJR80	5842	975309	1 - 484	15 - 498	D51221, D59467, AA305578, AA809122, T11417, D59317, D50979, D60010, D59551, D80164,

					C06015, C15076, D59275, D80258, D81026, D80269, D80195, D59503, D80045, D80038, D80227, D59502, A1535686, D51022, A1525227, F13647, D58283, C14389, D80043, H67854, H67866, D80024, D80378, D80439, D58246, D81030, D80188, D80251, A1525923, D57483, C03092, D80157, D59859, D80022, C14331, D80014, D80166, D80212, D80268, D80366, D59889, C14973, D81111, D80196, D51423, D59619, D80133, D80247, C14227, D80302, D80210, D51799, D80391, D80240, D80253, D80219, D59787, D80064, D50995, AA305409, C14014, C05763, D59474, D80522, D51103, D80248, D80241, D59610, D80193, AA514188, A1525235, D59927, A1525920, C14046, C14344, C14407, D45273, AA514186, A1525917, D59627, D58101, A1525242, D52291, D80168, D45260, C16955, T03116, Z21582, C05695, A1525912, Z33452, T02974, A1557751, C75259, A1525237, A1557774, D31458, D51053, T02868, AA514184, A1525238, A1525925, A1525215, C13958, D59695, C14298, D51213, A1525903, A1525216, A1525228, AW369651, Z30160, A1525222, T03048, H67858, A1535961, A1525969, A1525907, A1525922, A1525914, Z97989, AB028859, AJ132110, A62298, A84916, AR060385, AB002449, I14842, A82595, A62300, AR008278, AR054175, AR008277, AR008281, AR018138, AF058696, I79511, AR016808, I82448, AR060382, A63887, X67155, AR016691, AR016690, and U46128.
HTBAA95	5843	715044	1 - 466	15 - 480	AA382185, AF137030, and AF137031.
HTDAA07	5844	870742	1 - 395	15 - 409	
HTDAC37	5845	575842	1 - 438	15 - 452	D29028.
HTDAC77	5846	772242	1 - 486	15 - 500	
HTDAE25	5847	714359	1 - 794	15 - 808	N95037, A1022474, A1248271, AA975181, A1149108, A1093311, A1209125, AW090147, A1563932, AA464704, AA888260, A1817984, N66677, A1372916, AA194950, A1613488, AA988360, AW009662, AW197169, N70667, A1139484, AA593023, A1291223, AA918512, A1290011, AW275959, A1207031, A1147360, A1223112, AW168560, AA838742, A1700254, AA677736, AA025125, A1127821, A1199468, A1678965, AA706984, A1142366, AA648206, A1290254, AA705483, AA195162, T48016, AA662480, W94302, W79125, AA535223, AA649121, Z19423, A1887125, C00301, AA423808, A1624775, AA721770, H96745, AW021909, AA653395, AA808520, A1264085, R06999, AA419007, A1636591, H30126, AA203331, AA203130, A1371762, F37305, AA025205, Z25040, A1050096, and AF083255.
HTDAE43	5848	889311	1 - 466	15 - 480	AA478790, AA454942, AA291948, AW237540, N91112, A1494473, A1911509, A1439197, AA343020, T82251, T80658, A1652561, A1952736, AA478908, AC005613, AL049875, AC005318, AL132800, AL031000, AC005406, AC007966, AC004024, A1022727, AC007283, AB026899, AP000500, U65960, AC006313, Z83827, AC004817, AC006017, A1022401, AC004072, AL133321, AC008040, AC007068, D84394, AL121576, AP000509, AC006048, AC005296, AC002464, AL096801, AC003685, AJ003147, Z73965, AC006023, AC005598, AL023581, AC006371, AP000350, AC006001, M19364, AB002059, A22491, AC002472, AC007664, AC004869, AC006040, AF114156, K02402, AP000476, AL033403, AC004205,

HTDAF65	5849	927842	1 - 805	15 - 819	AC004210, AC008173, and AC007690.
HTDAG18	5850	975317	1 - 531	15 - 545	AA809786.
HTDAI42	5851	576013	1 - 168	15 - 182	AW450512.
HTGAL23	5852	574100	1 - 581	15 - 595	AJ243213.
HTGAM06	5853	935798	1 - 313	15 - 327	AA081775, and AL034553.
HTGAM26	5854	682040	1 - 268	15 - 282	AC004242.
HTGAM42	5855	578797	1 - 286	15 - 300	
HTGAN20	5856	578804	1 - 377	15 - 391	
HTGAO17	5857	876650	1 - 556	15 - 570	AA306797, AA315885, AA278590, and Z56144.
HTGAR40	5858	664270	1 - 285	15 - 299	AL109758.
HTGAR72	5859	574681	1 - 287	15 - 301	
HTGAS32	5860	835534	1 - 446	15 - 460	AA669142, and Z82206.
HTGAT93	5861	791508	1 - 304	15 - 318	
HTGAV59	5862	870798	1 - 616	15 - 630	R86892, AA628423, R41612, A1707842, A1055957, H05210, AA991859, AA470669, AA001858, AA031622, A1609279, AA974128, A1434212, A1244762, A1093389, AW169863, AA975419, A1800762, AA659915, N62291, AA044282, A1342963, AA026158, AA994340, A1375034, AA099832, AA149174, A1608984, R64147, R64156, A1367703, R65842, H86821, H87284, A1302922, AA031703, A1631329, A1824240, H83826, A1801241, W57570, AA149173, AA026157, A1744430, AA777668, and AC004549.
HTGAW37	5863	752829	1 - 402	15 - 416	
HTGAW75	5864	572404	1 - 410	15 - 424	
HTGAX19	5865	782877	1 - 587	15 - 601	H93152, H75866, A1057455, AA483942, A1432270, AL031687, AL049729, and AC006141.
HTGAY36	5866	923716	1 - 306	15 - 320	
HTGAY79	5867	775299	1 - 359	15 - 373	
HTGAZ62	5868	870414	1 - 332	15 - 346	
HTGAZ79	5869	584717	1 - 459	15 - 473	H52047, and AA354013.
HTGBE53	5870	685648	1 - 320	15 - 334	
HTGBE76	5871	954599	1 - 633	15 - 647	A1476793, A1672290, AW138734, AA779654, AA879458, A1681663, A1697960, A1914080, A1809954, AA830773, A1689893, AA829778, AA427944, AA430133, A1292003, AW006004, A1802022, A1830817, AA760755, AA911826, A1972329, AW024985, A1218258, A1262623, A1147166, AA775696, A1307175, AA432096, A1318373, AW135791, A1291999, A1262625, A1468220, A1261474, A1680656, AW303999, A1697519, A1932284, A1932319, A1301269, AW015392, A1351005, A1459293, AA057484, A1478943, A1264521, A1146596, AW131688, R94942, A1084799, AA434562, A1798178, AW207495, A1796893, A1144302, A1418524, A1690206, A1810352, AW136151, A1927475, W23511, AA912757, AA807192, AA906625,

HTGBF16	5872	572499	1 - 435	15 - 449	AW242625, AI272736, AA862266, and AI079720.
HTGBF62	5873	753962	1 - 286	15 - 300	T85954, T86652, and T85542.
					AA742198, AA116064, AA988320, AA478355, AA666332, F08230, AA547947, AL043285, AI310787, H86279, AA021199, AL046549, AA063419, H38553, AA326372, AA931974, H46830, AW080777, AA199578, AI310670, AA648942, AW438856, AA493975, AI754926, AW277253, AA455482, AA402129, AW131249, AA477503, AI344948, AA070345, AC006333, AC005562, AL022725, AC004825, AC004808, AC004999, AC004662, AL022574, AC006487, AL023807, U82828, AL021808, AC004805, AC005015, AL135783, AL133244, AF029308, AL109628, AC005495, AC006529, AC004167, AC008038, AC007666, AC009181, AL031281, AC006004, AC005049, AC005187, AC006111, AC010582, AC004686, AL133246, AL049794, AF049895, AC007250, AP000152, AP000011, AC005548, AC005158, AC007395, AC005682, AC004125, AC006251, AB023048, AF139813, AC007878, AC004456, AL033375, AL049844, AC007993, AC005330, AL022238, AC006370, AC005245, AC005067, AC002430, AC007384, AC004065, AC004815, AL049563, AC006071, AC004966, AP001058, AL031577, AL050343, AC005332, AC000159, AL008708, AC005701, AC005013, AL139054, AC004000, AC007179, AL020994, AC002558, AC007537, AL031123, AC005738, AL035423, AC005725, AL031780, AF109907, AC000025, AC004984, AC004858, AC004098, AL024474, AL049869, AF165926, AC002094, AC005914, U95742, AC006285, AL034400, Z84488, AC005772, U91326, AL133445, AP000086, AL132987, U80017, AL034418, AL133249, AL031311, AC006965, AC006441, Z82201, AC005737, AC002565, AP000511, Z98257, AC004884, AC000003, AC002369, AF143315, AC005358, AC002036, AL096701, AC005666, AL135744, AC006581, U66059, AC003081, AC004921, AL031735, AC002544, AC005913, AC016831, Z94160, AC006511, AC007021, AC005899, Z93016, AC003101, AF205588, Z81365, AF130343, Y10196, AC004792, Z94044, AC005618, AC005829, AC008008, AC003962, AL021878, AC005527, AP000962, AL031657, AC004968, U70984, AP000350, AF067844, U91321, AC007671, Z84480, AL096791, AC006195, AL022170, AC016025, AC004917, AL049874, AF123462, AC004900, AC005625, AL121652, AL008729, AL133216, AC004820, AC002543, AC004067, AE000658, AC005102, AC003695, AI239322, AB028893, Z83846, AC008014, AC010209, AC005224, AC004262, AC006254, AL049872, and AF053356.
HTGBF90	5874	786611	1 - 359	15 - 373	AA806299, AA829999, AA831691, AA321371, and AL096808.
HTGBG55	5875	966903	1 - 373	15 - 387	AA923782.
HTGBH18	5876	579103	1 - 344	15 - 358	
HTGBH55	5877	735751	1 - 583	15 - 597	I28792.
HTGBI93	5878	787110	1 - 207	15 - 221	AC003663, AC003070, AL022726, AC005104, and AC006251.
HTGBJ55	5879	579005	1 - 398	15 - 412	AJ132917, AF158180, AF031075, AF031078, and AF030876.
HTGBK66	5880	772325	1 - 327	15 - 341	
HTGBL34	5881	572643	1 - 308	15 - 322	AA361858.

HTGBL72	5882	576641	1 - 357	15 - 371	
HTGBN09	5883	506500	1 - 335	15 - 349	
HTGBN27	5884	683557	1 - 208	15 - 222	
HTGBN57	5885	578806	1 - 257	15 - 271	
HTGBP65	5886	870406	1 - 227	15 - 241	Z84479.
HTGBR20	5887	669797	1 - 609	15 - 623	AW408268.
HTGBR93	5888	973978	1 - 635	15 - 649	D80166, D80212, D59619, D80210, D80240, D59502, D80219, D81030, D51423, D51799, C14389, D80253, D80195, D58283, D59859, D80022, D80188, AA305409, D80391, D80043, D80227, D57483, D80193, D80196, C15076, D80045, D59889, C14331, D59927, D59610, D80164, D80269, D59787, D59467, D59275, D80038, D80366, D80241, D50979, C14429, D50995, T03269, D80024, D80378, D80134, D51060, C14014, D80248, C75259, AW178893, D80949, D80251, D51022, D81026, AW179328, AA305578, AW378532, AW177440, D51250, AA514186, AA514188, D80133, AW178775, F13647, AW369651, D80439, D80064, D80168, D58253, C14298, D81111, D51079, D80522, AW360811, D80268, AW352158, C14227, D59695, AW178762, C05695, AW375405, D80157, Z21582, D80132, AW177501, D51759, A1910186, AW177511, AW377671, AW366296, AW360844, D59373, AW360817, AW375406, AW378534, D80247, C14407, AW179332, AW377672, AW179023, AW178905, AW177731, A1905856, AW360834, AW352117, D80302, AW176467, AW179020, AW378540, AW377676, AW352171, AW178906, AW352170, AW178907, AW178908, AW179019, AW179024, D51103, AW177505, AW177722, AW360841, AW178909, AW177456, AW179004, AW179329, D59653, AW178980, AW177733, AW378528, AW178754, AW179018, D51097, D58246, AW179009, AW179012, AW178914, AW178911, T11417, AW378525, AW352174, AW367967, T48593, A1557751, C06015, AW178983, AW177728, AW178774, AW378543, AW352163, D45260, D59503, AW178781, AW177723, C14077, C03092, D58101, H67854, D80228, AW352120, AW178986, A1557774, AW367950, A1535850, H67866, AA809122, D59627, A1525917, A1525923, D51213, D80258, D51221, AW177734, T03116, D59317, C14344, AW378533, D80014, D59474, C14973, A1525920, AA514184, C14957, D60010, C14046, A1535686, D59551, A1525235, A1525912, D60214, A1525215, A1525227, AW177508, T03048, AW177497, D50981, A1525242, AA285331, AW378542, A1525925, A1525222, D51053, C05763, AW378539, D45273, C16955, Z33452, T02974, C13958, Z30160, AW360855, A1525237, H67858, C04682, A62298, A84916, A62300, A132110, AR018138, A67220, X67155, Y17188, D89785, A78862, AR008278, D26022, A25909, AF058696, D34614, AB028859, D88547, Y12724, I82448, X82626, AR025207, A82595, AR060385, AB002449, A94995, I50126, I50132, I50128, I50133, AB012117, AR008443, AR060138, X68127, AR066488, AR016514, A45456, A26615, AR052274, A43192, A43190, A85396, AR066482, AR038669, A44171, I14842, Y09669, A85477, I19525, A86792, AR066487, A30438, X93549, AR054175, D50010, Y17187, AR066490, A63261, AR008277, AR008281, I18367, AR008408, AR062872, A70867, AR016691, AR016690, U46128, A64136, A68321,

						D88507, D13509, AR060133, I79511, AF123263, X72378, AR032065, AJ000347, X93535, and AR008382.
HTGBS02	5889	920445	1 - 355	15 - 369		
HTGBY51	5890	506502	1 - 263	15 - 277		
HTGCD10	5891	964884	1 - 275	15 - 289		
HTGCD85	5892	579028	1 - 313	15 - 327		AI469599, AC005682, AL049760, AC005484, AP000475, AL121652, AC005777, AC006530, AC004520, AP000269, AF029308, AP000103, Z83840, AL050317, AC005015, AL109758, AC006052, AP000049, AC005996, AP000311, AC005318, AC007308, AC005901, and AL121595.
HTGCF49	5893	723090	1 - 545	15 - 559		AI017212, AL042735, AB018295, and AF155097.
HTGCG89	5894	894005	1 - 413	15 - 427		
HTGCH58	5895	909849	1 - 1259	15 - 1273		AA746372, AW293387, AA804512, AI124624, N29013, AW082724, AA737473, AI018013, AW298470, AI304868, AI348442, AA776579, AW298354, AA748461, N20641, AI280305, AA923469, R50142, AA837153, AA921954, AA827804, and Z60950.
HTGCI80	5896	588166	1 - 474	15 - 488		H53442, and AA249120.
HTGCI54	5897	571389	1 - 502	15 - 516		
HTGCL06	5898	935789	1 - 367	15 - 381		AL040359.
HTGCL40	5899	578774	1 - 225	15 - 239		
HTGCL94	5900	747573	1 - 242	15 - 256		
HTGCM13	5901	913673	1 - 326	15 - 340		
HTGCM90	5902	678122	1 - 472	15 - 486		Z85986.
HTGCM92	5903	578768	1 - 296	15 - 310		AA381762, AC007193, AL022318, AL022316, AC005412, Z98884, AC006487, AC005914, AL009181, AC005212, AP000557, Z93241, AF064861, AP000116, AC005746, AC007055, AL022323, AC006121, AC005018, AC007308, AC002400, Z83838, AC005736, AC008040, AC004148, AC002470, AC007536, Z99496, AC007226, AC005370, AL050307, Z83826, AL050341, AC005328, AL008583, AC007785, AL031123, AC005754, AC000353, AC002369, Z98044, Z97630, AC002128, AC007263, AP000555, AL031311, AC004673, AL049709, U95742, U78027, Z96074, AC009516, AC003007, AC005011, AL020997, and AC007216.
HTGCP76	5904	770143	1 - 299	15 - 313		AA350028, AI561255, AA654998, AI707788, AL042420, AA364224, AW440810, AA747480, AA747276, T07778, AL080274, AL031666, AL096701, AC008064, AL049874, Z84474, AF055066, AC005765, AC005237, AC007955, AL080243, AL049832, Z75894, Z75895, AP000056, AP000171, AP000124, AC005004, AP000330, AC005412, AL022322, AC007130, AL031289, AL009179, AC005940, AC002418, AC005258, U38670, U38668, AL031255, AC006071, AC012599, AC004966, AL133485, AC000353, AC004386, and AC004821.
HTGCQ15	5905	880293	1 - 377	15 - 391		
HTGCQ19	5906	974433	1 - 491	15 - 505		

HTGCS20	5907	933260	1 - 520	15 - 534	
HTGCS81	5908	921650	1 - 232	15 - 246	AW754576, AW195474, AA846702, and AC004889.
HTGCT54	5909	960912	1 - 291	15 - 305	AA459192, R08444, T85564, T84409, and AA361578.
HTGCT57	5910	496297	1 - 380	15 - 394	AL049563.
HTGCU25	5911	679403	1 - 267	15 - 281	
HTGCU28	5912	713353	1 - 242	15 - 256	
HTGDG28	5913	735002	1 - 397	15 - 411	
HTGDG63	5914	579127	1 - 392	15 - 406	
HTGDG70	5915	757191	1 - 395	15 - 409	
HTGDG75	5916	769010	1 - 135	15 - 149	AL049758.
HTGDM56	5917	733405	1 - 404	15 - 418	AL020997.
HTGDM65	5918	967158	1 - 426	15 - 440	
HTGDS63	5919	958651	1 - 363	15 - 377	
HTGDS88	5920	659766	1 - 550	15 - 564	
HTGDT91	5921	974962	1 - 626	15 - 640	AW375405, AA305409, AW177440, D80439, AW360811, AW366296, AW375406, AW179328, T03269, C14389, T48593, AW378534, AW179004, AW179332, D58283, AW179329, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80043, D59787, D80227, D59502, AW378532, D80038, AW179019, AA305578, AW377676, AW352170, D45260, C06015, AW378533, AI525913, I50126, I50132, I50128, I50133, AR066488, X82626, AR025207, A84916, A45456, A67220, D89785, A62300, A62298, Y17188, AB028859, A82595, A78862, D34614, A94995, D26022, D88547, AJ132110, AR018138, AR008278, X67155, Y12724, AF058696, A25909, AR016514, D50010, AR060138, A26615, AR052274, AR008443, Y09669, AR060385, AB002449, AR066487, A43192, A43190, AR038669, A30438, D13509, AR060133, Y17187, AR008408, A63261, A70867, AR016691, AR016690, and U46128.
HTGDU57	5922	712249	1 - 568	15 - 582	AC004242.
HTGDV50	5923	708605	1 - 521	15 - 535	
HTGDW16	5924	661477	1 - 521	15 - 535	T90228, N59530, AL049869, AF031076, AF031078, AF030876, AP000347, AC002067, Z49154, AC006128, AF107885, Z85986, AL049793, and AP000346.
HTGDW40	5925	710759	1 - 580	15 - 594	
HTGDW96	5926	967030	1 - 1682	15 - 1696	AI354538, AI185915, AA902656, AA928143, AI697438, AI091263, AI122948, AW182996, AA205969, AI432383, AW130757, AI686707, AI246246, AA610132, AI095234, AA602547, AI340088, AA992399, AI284151, AA946670, AA775430, H15150, AI081207, AI093901, AA935934, AA827098, AA706205, AI347104, AI369270, N70255, AW024457, AI140633, AI085317, AA909079, AI275007, AI025475, AA905290, AI379266, AA010063, AA872686,

AA948272, AI140722, AI266084, AI352580, AW081421, W04189, N69287, AI436354, AA501433, AA494361, N49879, AA827088, AA724446, AA832464, H56506, AI358609, R43705, H15210, H84120, H84119, AA694028, AA375219, IJ5221, AI907126, AI003836, AA369964, AA516079, W28121, R20249, R41658, AA206267, H09794, N34884, AI805667, AI934031, AA721176, AI094546, Z40832, AA353931, AI919536, AI382838, AI934162, AA035556, N49984, AA035045, AI572357, AI907128, AI907125, AW393494, AI340087, AW393499, AW301505, AW268302, AI349772, N94107, AI345587, AI345551, AI270183, AW079572, AL036403, AW268122, AI923989, AI698391, AI251963, AI336582, AI815855, AI684021, F37471, AI251221, AI564259, AL040243, AW072719, F27788, AL042745, AI345557, AL079963, AI318280, AW149925, AW268221, AI801325, AI612913, AI866090, AL042628, AI252023, AI521594, AI269862, AI635492, AI358701, AW051258, AI364788, AI537677, AW161579, AI582932, AI812015, AW118518, AW150578, AL045266, AL120853, AL036631, AW198075, AI570807, AL036361, AL041772, AI802542, AW160916, AI889189, AA449768, AI539028, AL039086, AI798456, AL037582, AL037602, AL121501, AW192687, AI525653, AI950892, AI564719, AI591420, AI932794, AW162194, AL036638, AI611738, AI619502, AI677796, AL045500, AI184903, AI491852, AL040241, AW026882, AW151136, AI923370, AI567940, AI929108, AI686906, AA291456, AW051088, AI433157, AI288305, AI702073, AI824576, AI452560, AI889376, AI475371, AW080746, AI524671, AI921248, AW080402, AI632408, AI478123, AI433976, AI633125, AI635067, AI567769, AI620284, AI915291, AI913452, AI950664, N80094, AI554821, AL045774, AL042627, AI539771, AI468872, AI521012, AI500659, AI815232, AI648663, AI500523, AL119863, AI624548, AI520809, AW117746, AI284517, AL036901, AI500706, AI494201, AI491776, AI445237, AW151138, AL110306, AI926790, AW087445, AI538342, AI521560, AI500662, AI284509, AI889168, AI866573, AI633493, AI434256, AL121328, AL120300, R36271, AI888661, AW129659, AI284513, AI888118, AL038605, AI445992, AW020693, AI554245, AI440252, AA225339, AI306613, AI433037, AI174394, AI627988, AI909697, AI281772, AA640779, I48979, I48978, AF113694, I89947, AL050277, AF113019, AF090934, Y11587, AF090901, AL117457, AF177401, A08910, A08909, A08913, AL050393, AF111851, AL133560, U35846, AF113690, AF090903, A08916, S78214, AF067728, AL122050, AF183393, AL133072, AL049283, AF087943, AF153205, Z82022, AF090900, AL050149, AL096744, AF146568, AF078844, I89931, AL133016, AF057300, AF057299, Y16645, AL137550, I49625, AL122049, AF097996, U67958, I33392, AF113699, I31396, S68736, L31397, X84990, AL110280, A65341, A77033, A77035, AF111849, AF017152, AL117435, AI122121, AF106862, X72889, AF113677, AL137557, A03736, AL049314, E07108, AL133075, AF125949, U42766, AL133104, X70685, AL110196, AL133080, AL133640, AL137271, AL137538, AL122098, AL122110, AF017437, A93350, AL050116, AF158248, AL050138, AF118070, Y11254, AJ242859, AL133557, AF026816, AL137521, A58524, A58523, X82434, AJ000937, AR000496, U39656, AF090896, AI2297, AL110222, AF090943, AL137560, AF113691,					
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HTGDX29	5927	883517	1 - 450	15 - 464	
HTGEB95	5928	725254	1 - 383	15 - 397	AI793116, AI793143, AA976208, AI703191, AI733188, AI733210, AA210747, AA367325, AA478680, AF048686, and AJ006068.
HTGED32	5929	698776	1 - 760	15 - 774	H62923, AI434696, AA550959, AA502110, AA984920, AA564925, AL022476, AF111168, X90927, X90926, M33388, X58467, X58468, AC008273, AP000556, AP000557, AP000553, AC007899, AC002040, AL049839, AC005089, AC002369, AC004659, AC007666, AC009501, AL049631, AC007227, AL021878, Z98946, AC002470, AC005343, Z93023, AC002994, AL023803, AL034423, AC004674, AL022336, AL031767, AL121769, AL049760, AL031311, AL050307, AP000884, AC006160, AC007055, AL021977, AC008154, AC007065, AC006251, AC010205, AC004953, AF187320, AC005512, AC005049, AL022326, AC005695, Z95114, AC005777, AP000514, AL021578, AC005747, AC007686, AP000096, AP000240, AC009247, AL109963, AP000694, Z97989, AC007371, Z98742, AL022323, AC000091, Z74739, AC006080, AL035661, U91323, AC005358, AC018725, AC005971, AL031388, AC005940, AP000952, AL096701, AC002400, AC006312, AC004841, AB023051, AC005102, AC005535, AL035403, AL031432, AC004804, and AC004821.
HTGED54	5930	729223	1 - 449	15 - 463	
HTGED59	5931	711417	1 - 327	15 - 341	AA301680, AI819419, AA694596, H96248, AA720531, AI640717, AA825809, AA639040, AA947352, H68210, AI520925, AA225495, AA056619, AA363890, T99365, R00693, AA084320, AW129188, AA340581, AA218684, AA745507, AA862243, AI002950, AA835702, AI560241,

HTGED69	5932	754761	1 - 178	15 - 192	H05066, N26159, AA171400, H24331, AW338376, AI890297, H23238, AA211925, AI690520, N71264, AI926126, AW085626, H97551, AA484671, AA744172, AW022796, AA744278, AA601343, AI805699, T26553, AA598579, AA772493, N24013, AA730530, AA526339, AA602579, AA372646, T57615, AA262079, AI623505, U69568, AC007011, AC005083, AC005409, AC003041, L78833, AC005534, AC005225, AL031666, AL050341, AC004067, AC008123, AC005837, AC000379, AC005800, AP000958, AC002312, U85195, AE000658, AC007066, AC004810, AC004525, Z95703, Z73495, AC004168, AF111168, AC004816, AC005324, AC006474, AC006475, AF064859, AP000349, AC007015, Z97876, AL078462, AL035455, AL035684, AL078476, AC007050, AC002369, AC002302, AL034420, Z93928, AC005913, AC004584, AC006039, AL020997, AC006966, AL135960, AJ131016, AC004941, AC002070, AC002991, Z93023, AC004196, AF207550, AC007695, AC007541, AL022146, AC007934, AC004634, AC005049, Z82201, AC005527, AC005512, AC006011, AC005041, AC005914, AC008119, AC008115, Z82249, AC004531, AF113129, AL080243, AL139054, AC003014, AC004543, AC005082, AC006071, AC002038, AL008639, AC007542, AC007877, AL031286, Z95114, AF217403, AC005539, AL049821, AC002524, Z98946, AC005696, AC000052, AC004019, AC005372, AC005529, AF067844, AP000510, AC004974, AC005821, AC005531, AL135745, AP000966, AC005048, AL109628, AL049765, and AL133353.
HTGEF77	5933	771825	1 - 486	15 - 500	AC005971.
HTGEF78	5934	769764	1 - 154	15 - 168	
HTGEG76	5935	769765	1 - 418	15 - 432	AC009044.
HTGEL46	5936	685425	1 - 445	15 - 459	
HTGEL54	5937	728905	1 - 400	15 - 414	N71581, N73880, N99573, AI283842, AA928413, AC007993, AC006312, AC004678, AF030453, AC005088, AC004983, AP000353, AL132992, and AC003010.
HTGEL55	5938	684871	1 - 329	15 - 343	
HTGEO46	5939	674409	1 - 495	15 - 509	
HTGEO86	5940	703733	1 - 409	15 - 423	
HTGEO94	5941	723097	1 - 629	15 - 643	AC004918.
HTGEP20	5942	799683	1 - 388	15 - 402	H65476, AA496014, AA461080, AA229933, H65475, AC002310, AC005071, AC006948, AC004801, Z79997, and AL078611.
HTGEP92	5943	789681	1 - 785	15 - 799	H40324, AA738283, AI268731, AI298787, N54397, AA642809, W24312, AA837771, AA701131, F33126, F02342, AA640310, AA741403, AA747757, AI370170, AA229422, AA340226, AI434037, AA503018, AA177013, AA740571, AI915081, AA176257, AL119563, AW151761, AA605243, AA135360, AA365893, N64587, H79586, AI904445, R83068, AW302670, AI927275, AW388886, H43183, N52501, AI080732, AA582350, AA748826, AA629679, AA579281, AA133332, AW407632, AL042667, AL042670, AI349130, AA565534, AA587215, AI858272, AA578066, AA525253, AC006312, AL022322, U29119, AL109963, AC005071, AC007016,

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HTGEQ11	5944	967047	1 - 380	15 - 394	
HTGEQ34	5945	703443	1 - 416	15 - 430	
HTGEQ40	5946	711181	1 - 120	15 - 134	
HTGEQ61	5947	741828	1 - 395	15 - 409	AL049569.
HTGEQ68	5948	753031	1 - 432	15 - 446	
HTGER72	5949	683469	1 - 380	15 - 394	
HTGET46	5950	719048	1 - 332	15 - 346	AW074332, AA780818, AA688303, AF668951, AI420747, AA640305, AI174703, AL044438, AA569565, AA601333, AI270280, T96028, AI613459, AA631434, AI114851, AA568303, AA568311, AW275640, AL047685, AA493546, AL048651, AA180056, AW452106, AI275380, AA669225, AI150693, AA846944, C14144, AL079508, AA548142, M85807, H59296, AI918550,

					AA664544, AA547956, AA572982, AI377411, AA199578, AL048969, AI819419, T52807, F30357, AA368835, AA984656, AI791856, AI610814, AA482698, AL135707, AL044217, AL049646, AL109865, AL122020, AC004386, AC002418, AC005011, Z98946, AL096763, AL031282, U50871, AC007066, AC006084, AC004530, AC006034, AC004938, AC006479, AC005519, AC005180, AC005944, AL121603, AL031311, AC004655, AP000310, AC004000, AC006026, AL035420, AC008372, AC005531, AL031321, Z69732, AF067844, AC007021, Z97630, Z97196, AC005971, AC006480, AC005610, AP000947, AC004943, AC005261, AL096701, AC006441, AC005406, AP000116, AC005839, AC004242, AC002425, AC006312, AL035400, AL096678, AC005089, AF111167, AL139054, AC005695, AL035249, AL022721, AL034379, AC018633, AL034423, AP000228, Z85986, AB023051, AL080243, AC002074, AC006450, AP001068, AP000140, AC004854, AC002480, L78833, AP000240, AP000962, AC005215, AL135744, L78810, AC005696, AC006211, AP000088, AC005484, AL021392, Z93017, AP000008, AC004167, AC002991, AC006324, AL035422, AP000512, U89336, AP000067, AL031846, Z92844, AC007676, AC007917, U52112, AL080250, AC002470, AC005013, AP000280, AF196971, AC002380, U91327, AC004801, AF030876, AP000107, Z83840, U85195, AC004231, AC006166, X02883, AE000662, M94081, Z93928, AL117258, AL133241, AC002314, Z98048, AL031672, AC008044, AL049648, AL008629, AC005726, Z54073, AL049776, AC004929, AP000469, AC007543, AC003029, AC005529, AL022315, AC002558, AC004851, and AL049844.
HTGET82	5951	778928	1 - 558	15 - 572	Z98751.
HTGEU06	5952	935470	1 - 425	15 - 439	
HTGFC20	5953	668924	1 - 429	15 - 443	
HTGFC70	5954	757193	1 - 351	15 - 365	N86992, AI241637, AA483583, AA830169, AA506744, AI021990, AA332991, AI283064, AA807583, AA229218, AA652422, AA229121, AA229188, N73511, AA904211, T29897, F25301, AA679061, AI207491, AI218171, AW103753, Z25411, AI079901, AI148404, AI683846, R73803, AI683385, AA847570, AA584564, AI627868, AI744175, AA657373, AA513141, AA513181, AA650053, AA364869, W04322, AA468974, AA230025, AA468371, AA224966, AA228368, AA055307, AA224889, AA468505, AA228269, AA641112, AA224816, AI701379, AA467943, AI669514, AA524616, AA614254, T40617, AA714930, AW410116, AW390309, AA448221, AA121919, AW008093, AA363260, AA745524, AA744001, AA744272, AA744455, AA302628, AI751191, AA745588, AA743966, AL037929, AL037932, AL037923, AI923135, AA594510, AI660629, AI417675, AA877143, AI738813, AI619953, AA780046, AI538779, AA196824, AA988666, AC005884, Z94044, AL035451, AC003956, AC005747, AC009241, Z82176, AC010849, AC002365, Z84814, AP000230, AP000144, AL109967, AF001549, U50871, AP000035, Z98036, AC004686, D84296, AP000150, D83253, AL022147, AP000009, Z94161, AF157623, AC005105, AD000684, AC002128, AP000261, AP000100, AC006478, AC004812, Z97832, AF165147, AC007263, AC007543, AC004451, AP000350, AC005808, AC002068,

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HTGFK43	5955	669222	1 - 310	15 - 324	AI027665.
HTGFN46	5956	974106	1 - 487	15 - 501	
HTGFO51	5957	866957	1 - 402	15 - 416	
HTGFO75	5958	767032	1 - 267	15 - 281	
HTGFP07	5959	952555	1 - 329	15 - 343	AA564583, and AA583827.
HTGFP49	5960	722626	1 - 227	15 - 241	
HTGFP59	5961	738974	1 - 150	15 - 164	AL024508.
HTGFP62	5962	742908	1 - 519	15 - 533	
HTGFR80	5963	810302	1 - 377	15 - 391	AW392539, T08628, R19000, W40396, T07400, and Z98043.
HTGFW29	5964	690276	1 - 235	15 - 249	AC009304.
HTGFW63	5965	744678	1 - 711	15 - 725	AI637766, AA203538, AI341753, W35269, W23591, and AL137383.
HTGFX16	5966	656777	1 - 323	15 - 337	AA351139.
HTGFX82	5967	779055	1 - 341	15 - 355	
HTGFZ03	5968	923443	1 - 262	15 - 276	AI870366.
HTGFZ35	5969	707730	1 - 297	15 - 311	
HTGFZ58	5970	735683	1 - 331	15 - 345	
HTGGL08	5971	958583	1 - 463	15 - 477	
HTGGL11	5972	966328	1 - 318	15 - 332	AC002359.
HTGGL23	5973	974590	1 - 435	15 - 449	
HTGGL32	5974	698714	1 - 412	15 - 426	AA252763, AA558697, H59023, AI824562, AL043721, AW338086, AI205126, AA059154, AI251002, H64777, AI469172, AA605274, AA584581, AA745410, F34558, AA318652, AI648558, AL079804, AI339850, AW193295, AA098922, AI284640, AI286356, N27353, AA340747, AA507547, AI469796, AI818620, AA515224, AI623898, AI890923, AA594145, AW129001, AA317170, F37169, AI039958, AI003734, AW166815, AA747472, AI919265, F27015, AI962050, AW438643, AW029038, M62249, N71724, AI053672, AA916039, AI250019, AA515051, AA587604, AA077817, AI281881, AI565245, AI144055, AW440836, F36273, AI564185, AI929531, H88666, AA491762, AA572975, AI038785, AI334443, AI951863, AI918421, AW162049, AI355224, AI904894, AA652057, F29989, AI537955, AA095511,

AA115968, AL043756, AI500454, AA649642, AW236342, AW088058, AW193432, AW338869, T06556, AA598586, AI282336, AA862173, AI367975, F18974, AI917271, AA515435, AW406162, AI049722, AA483034, AI350211, F36373, AW408717, AA229785, AW272641, AI471481, AI133636, AI358571, AW261871, AI567674, H64560, AI439360, AI732186, AI697208, AI133164, AI674873, AA713815, AI613280, AW008317, AA443390, AW151884, AL120674, AI688846, AI307201, AI921296, AA886584, AA917683, AW406447, AA654627, AA745582, F29702, AA054106, AI679782, AA557879, AA177061, AI375710, AI281903, AA826303, AA744031, AW074398, AA743980, AI608626, AA569187, AA284179, AA932099, R13151, AI287651, AI358229, AA629419, H78195, AA100372, AA347927, AI431303, AI282832, AA744074, AA340003, F19258, AA745355, AA744088, AW406755, AW193265, AW086257, AL041690, AW084253, AI365988, AL037683, F25203, AW440976, AL046205, AW339687, AW419262, H72688, AA502155, AI446464, AL118947, AI635272, AA099892, AI110770, AW270270, AA805373, AI471462, AA113186, AA125788, H86264, AW162489, T40077, AI370878, AI281465, AI148277, AI279165, AW276827, AA350859, AI148446, AI049634, AI150670, AI252554, AI286264, AL046409, AI341664, W60516, AI802526, AI312149, W95976, F27842, AL120687, W95841, AL038474, AL040913, AL042753, F36404, AF150152, AA683031, AI053429, AA557686, AA224091, AA470985, AI659826, AA659083, H37777, AW102955, AI379719, AA021552, AI281807, AI469003, AA581146, AI540107, T07451, AA229444, AI749284, N63352, AW238542, R91994, F24284, AW080004, T06828, H00934, T07287, T08638, AA634146, AA578918, AI343063, AA780929, AA587256, AI888365, AC007099, AL021332, AC005901, AP000459, Z68872, X75335, AF147277, AC004966, AC004470, AC007685, AC008044, AL008728, AC003971, AL049745, AC004057, AC007283, AC005924, Z95114, AC004984, AL031311, S75337, AP000045, AP000113, AL031662, Z92845, AC002982, AC000027, D87014, AC004088, Z97630, AL080276, AC012331, AL121694, AC006045, U14702, AC007429, AP000402, AL031681, AC009223, AC003048, AF015163, AC005391, AC004996, AC005194, AP000553, AC009516, U02048, AC005739, AC008975, AI239318, AC005723, AC006013, AC005099, U18390, AL096775, AL049698, AP001065, U18399, AC006476, X67277, AC004785, AL008716, AP000349, L10641, AC006019, AC007051, AC007919, M87919, AC005598, AL049691, AC000024, D87011, D87009, AC006150, AC006352, AC002509, S70694, AC005144, AL035681, AC000085, AC004999, AC005722, Z97054, Z69921, AC007450, AC002059, AP000496, Z54146, AL049764, AC007292, AC004221, AC004637, Z98752, AC005365, AC005057, AP00017, AP000158, AC005911, AC002119, AC005846, AP001068, AC006458, Z82203, AC006965, AC004099, AL023806, AL033381, AC006512, AC005531, AC006948, AC007514, U47924, AC005406, AJ011930, U14695, U14700, U14701, U14703, U14705, AJ010230, U14691, U14685, U14686, U14687, U14688, U14689, U14699, U14710, AC005759, AC006127, AC004475, AC000041, AP000011, AP000152, AF207550, AC000025, AL022328, AL079340, AC005070, AL021453, AP000503, AF134726, AC004025, AC005902,				
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HTGGL43	5975	714932	1 - 204	15 - 218	
HTGGL79	5976	774657	1 - 254	15 - 268	AA826138.
HTGGM20	5977	669083	1 - 586	15 - 600	AW083689.
HTGGIN13	5978	869239	1 - 580	15 - 594	AI557095, and AL136295.
HTGGIN92	5979	927051	1 - 345	15 - 359	AL021453.
HTHAA47	5980	503638	1 - 421	15 - 435	AA383871.
HTHBA07	5981	954426	1 - 190	15 - 204	AA383894.
HTHBA18	5982	502818	1 - 115	15 - 129	
HTHBA68	5983	915256	1 - 600	15 - 614	AA383725.
HTHBC31	5984	578568	1 - 456	15 - 470	AA383947.
HTHBC37	5985	502935	1 - 246	15 - 260	AA383950, and AA383958.
HTHBG67	5986	964562	1 - 806	15 - 820	AW367259, and AB029039.
HTHBK65	5987	526716	1 - 119	15 - 133	
HTHBL65	5988	921965	1 - 427	15 - 441	W76016, and AF190465.
HTHBO09	5989	531115	1 - 231	15 - 245	AP000701.
HTHBQ94	5990	529671	1 - 317	15 - 331	
HTHBU75	5991	557957	1 - 121	15 - 135	
HTHBW69	5992	757741	1 - 233	15 - 247	
HTHBY64	5993	712474	1 - 480	15 - 494	AC000073, and AC000092.
HTHCA17	5994	572407	1 - 284	15 - 298	
HTHCA75	5995	712649	1 - 1007	15 - 1021	AA203124, AA780042, AA215401, AF048727, AC002086, AC002385, AC004835, Z92545, AC004690, AL050337, AC004087, and AL024493.
HTHCB68	5996	660309	1 - 345	15 - 359	AF132607, and AB006626.

HTHCB83	5997	578858	1 - 309	15 - 323	<p>AI219546, AA669108, AA812176, T64527, AI811076, AA658101, AA452879, AI537814, N55360, AI261932, AI863180, AI270092, AW197990, AI801031, AI540367, AA987277, AA632493, AA632484, AI659402, AA426571, AA719317, AI248494, AL040524, AA602233, AI718218, AI707565, AI183878, AI279229, AI752815, N71340, N71390, AI190467, AI459213, AA347735, AA317898, AL133804, N55012, AA658540, AI000114, W24602, AW197508, AA484366, H65476, H65475, T40298, AA496014, AA767864, AI573180, R92296, AA486859, AA461080, AI065059, AI355433, N34481, AA287259, H72049, H73336, AA584675, AA485323, AI092461, Z98751, AC000057, AF121781, AL031390, AL049776, AC016026, U91323, AP000518, AL031848, AC005899, AL022323, AC007228, AC005295, AC005800, AC007216, AC002312, AL035089, AC002511, Z84466, AC005257, AC002126, AL033504, AC002054, AL096791, AC007845, AC007878, AC005399, U95742, AC000379, AP000032, AL034429, AC005512, AC006211, AC022517, AL008721, AC003036, AC006057, AC002549, AC009399, AC002301, AP000553, AC007201, AC009516, AC004797, Z54147, AC009363, AC007114, AC006946, AC006441, AC004590, AL022721, AC008064, AC005519, AF002993, AC002472, Z86090, AL079342, AC009501, AC007664, AC004813, AC007546, AC005529, AC008018, AC008124, AC005520, AC005225, AC002563, AC006953, AF050154, AC002996, L78833, AL031985, Y17293, AC005362, U91326, AC002544, AC007182, AF196971, Z75888, AC004167, AC002425, AL133485, AC004882, AC003109, AC007637, AC000068, AL033381, AC007786, M19364, AL021154, AL031670, Z85987, AC008928, AC003071, AC004084, AC005015, Z97053, AL121825, Z93017, AC004531, AC002470, AB017335, Z54334, AC004985, AL122021, AL049540, AL109952, AC005233, AL022067, AC005368, AC016025, AC004079, Z75887, Z83853, Z94802, AL049553, AL132777, Z98941, AC006430, U91321, AR060472, AL022336, AC004453, AL109627, AC005482, AC003982, AC005694, M10065, AC008101, AC002073, AC004678, AL021391, AF038458, Z82184, AP000270, AC004491, AL009181, AC000026, AC003964, AC003012, AC006450, AL049712, Z79997, AP000514, AL035413, Y18000, AL121653, AJ006216, AC002990, AC004966, AL133500, AC004104, AC002059, AC003010, AC000086, Z97630, AP000167, AP000052, AC003666, AC007792, AL008718, AC004149, AC002565, AC004534, AC005803, and AC007687.</p>
HTHCC54	5998	578877	1 - 328	15 - 342	
HTHCD17	5999	664274	1 - 324	15 - 338	
HTHCD91	6000	973272	1 - 589	15 - 603	AA085994.
HTHCG11	6001	967275	1 - 325	15 - 339	
HTHCG86	6002	578843	1 - 357	15 - 371	
HTHCH22	6003	630239	1 - 673	15 - 687	AF190465.
HTHCJ42	6004	578875	1 - 279	15 - 293	
HTHCK38	6005	579080	1 - 402	15 - 416	
HTHCK42	6006	870355	1 - 403	15 - 417	

HTHCK91	6007	922873	1 - 330	15 - 344	AC011311, and AC005820.
HTHCM08	6008	959719	1 - 355	15 - 369	AA551975, Z98743, and AL079300.
HTHCM19	6009	842036	1 - 436	15 - 450	AA572753, AA836605, AA302978, AI445373, R67701, AA496309, AI306717, AA558404, F23307, AA376358, AI283938, AI537424, AW237905, AI354333, AA309634, AA610255, H67064, AI266359, AA302660, AI476049, AI798313, AA297698, AW243945, AA502991, H79586, F01222, AW008184, AI933716, AI800343, R83068, AA747757, AA476739, AA176328, H49372, AA299221, AA102737, AI431513, AI370170, AA230146, AI816537, AA356376, AA225358, AI815583, AA632556, AA484256, AI278130, AI628859, AA714073, AA368759, AA612727, T48829, AA831801, R33091, AI185394, F35684, AA834807, AA372311, AA487569, AI915081, AA713735, AI973173, T40629, AI300818, AW265688, AI310992, AA643829, AA604831, AI031733, AC005274, I34294, AC000120, AC004602, AC005828, AC005412, AC004884, AC004448, AC006509, AI117344, AI0335685, AC004129, AI133246, AL022163, AC004895, AI050348, AC002468, AI080250, AC009501, AI031848, AL022276, AC004817, U47924, AF015262, AC005231, AI229043, AI050343, AI021939, AF111168, AC002988, AF027390, AL022336, Z85987, AC005971, L78833, AC002996, AL078593, AC005527, AI133243, AC007955, AL021154, Z98941, AL049832, U63721, AL022721, AC005255, AF196779, AC005529, AC009247, AL022476, AI135744, AI031311, AC006536, AC004253, AI133448, AL023575, AC007676, AC006312, AP000115, Z83844, AC005914, AP000343, AC007934, AC007371, AC004000, AP000121, AC005911, AC007666, U85195, AC002395, AP000045, AP000113, AI133163, AI109628, AC002091, U62292, U89335, AE000658, AC004008, AC004106, AI121653, AF075074, AC000039, AI117258, AL023581, AC005366, AP000502, Z93241, Z98051, AC007050, AC002477, AP000305, U95742, AC008372, AL049795, AL035249, AC007363, AC005820, Z98946, Z98884, AD000833, AC005940, AB020868, AC002303, AC007216, AL023653, AC005755, AC015853, AC004125, Z95114, AF134726, AC006241, AI132712, AI031433, AC005520, Z86090, AC005800, AC003695, AP000501, AP000103, AP000047, AC008989, AP000512, AC005081, AC004874, AC007917, AC010077, AP000553, AI049843, AC008154, AC004962, AI031577, AC005003, AC005189, AP000359, AI031427, AI035658, AI033392, AC007225, AC004854, AC002126, AC005551, AC007308, AC004797, AI031588, AC007358, AC004887, AC002316, AL079295, AC005921, AC005859, AP000116, AP000509, AI035400, AI034379, AC004019, AC007324, AC002528, AI109801, AI110292, AF015416, AI035684, AC004984, AC004447, AI122020, AI049697, AI121658, AL022326, AP000694, AC002312, AC008044, AP000269, AC005476, AI049830, AC006254, AC002310, AC003071, AC002350, AI049856, AC006064, AC007444, AF196972, AF047825, AL032821, AC005089, AC007277, AC007688, AC006317, AC002119, AC004851, AC007283, AC005082, AI031662, AC005228, AC004659, AF126531, AI008726, AC006430, Z97030, AI031602, AI031295, AC007066, AC005786, AC005291, AF196969, AI109807, Z85986, AC005225, Z93930, AI035420, U82828, AC005190, AC006023, AP000032, AL049569,

							AC005746, AF001548, AC000026, AC004985, AC005599, Z95115, AC007536, AP000350, AL049643, and AC002106.
HTHCM39	6010	578831	1 - 338	15 - 352			
HTHCN38	6011	578826	1 - 421	15 - 435			AC004918.
HTHCO28	6012	705888	1 - 458	15 - 472			
HTHCO92	6013	578757	1 - 71	15 - 85			AA724718, and AW297844.
HTHCQ31	6014	926330	1 - 622	15 - 636			T80675, and AA836398.
HTHCQ63	6015	959994	1 - 348	15 - 362			AP000172, AP000057, AP000125, and AP000330.
HTHCR16	6016	578722	1 - 309	15 - 323			
HTHCT64	6017	856477	1 - 407	15 - 421			
HTHCU43	6018	578849	1 - 285	15 - 299			AA758534.
HTHCU85	6019	578851	1 - 300	15 - 314			
HTHCV21	6020	671098	1 - 230	15 - 244			AA678938, AA703089, AF057177, AF159056, AC006033, and AC007245.
HTHCV22	6021	419714	1 - 320	15 - 334			
HTHCV59	6022	937393	1 - 381	15 - 395			
HTHCW35	6023	707732	1 - 254	15 - 268			AI438940.
HTHCW45	6024	578823	1 - 217	15 - 231			
HTHCW83	6025	578828	1 - 238	15 - 252			
HTHCX84	6026	578874	1 - 289	15 - 303			
HTHCY12	6027	971165	1 - 501	15 - 515			AA287931, AI341725, AI885252, AA481510, AA910745, and AA651762.
HTHCZ96	6028	578876	1 - 292	15 - 306			
HTHDD40	6029	707065	1 - 354	15 - 368			AA393224, AI016087, D81712, AA196338, AA935945, AI366709, AI187411, AI138856, AI300972, AI208569, AI681313, AI306498, AA192299, AI269875, AI735291, AI749426, AI971045, AI078265, AI308072, AI479418, AI870613, AI347395, AI273636, AA780.90, AI469870, AI971121, AW005093, AI310114, AI142657, AA917590, AI094689, AI273866, AA975941, AA626296, AA620996, AA435851, AA416923, AA770226, AA443766, N73669, AA416858, AI266465, AI311563, AA196360, AA026598, AI306499, AI690271, AA196353, AA025864, AA723525, AI264128, AI292139, AA469915, AI681934, AA476818, AI680820, AA806060, AW138575, AI919372, N78510, W84495, AI735033, W84355, AA417880, AA192313, AI804297, AI914087, and AF161386.
HTHDE26	6030	869483	1 - 809	15 - 823			Z59408.
HTHDE44	6031	791641	1 - 374	15 - 388			AL031120.
HTHDE91	6032	967215	1 - 295	15 - 309			AC004854.
HTHDF38	6033	870339	1 - 684	15 - 698			H88681.
HTHDH24	6034	574675	1 - 493	15 - 507			
HTHDH34	6035	490926	1 - 118	15 - 132			

HTHD131	6036	959718	1 - 401	15 - 415	
HTHD143	6037	870335	1 - 353	15 - 367	AP000501.
HTHDM25	6038	578878	1 - 320	15 - 334	AA230122.
HTHDM65	6039	579199	1 - 239	15 - 253	AA639236, and AA838091.
HTHDM69	6040	578834	1 - 370	15 - 384	
HTHDP70	6041	578882	1 - 294	15 - 308	
HTHDQ85	6042	966858	1 - 314	15 - 328	
HTHDR09	6043	579076	1 - 206	15 - 220	
HTHDR24	6044	578848	1 - 354	15 - 368	AC005081, and AC005015.
HTHDIU80	6045	764136	1 - 598	15 - 612	
HTJAB35	6046	491273	1 - 507	15 - 521	AA504694, AW372019, AL133355, AC005484, AC007151, AC005527, AF053356, AL049872, AC005529, AC016026, U95742, AL049795, AC005295, U91321, AC007845, AC002365, AC002404, AC004675, AC006101, Z98051, Z98941, AC007842, AF088219, AC013256, AL096701, AC005664, AP000501, AC004895, AL031595, Z93023, and AC005102.
HTJAB39	6047	705432	1 - 468	15 - 482	AA078502, AC000385, and AC004924.
HTJAD26	6048	681865	1 - 613	15 - 627	
HTJAE28	6049	703321	1 - 288	15 - 302	Z93242.
HTJAE42	6050	668339	1 - 384	15 - 398	H97454, and AI703400.
HTJMB71	6051	760226	1 - 832	15 - 846	AI274138, AA828653, AA746171, AA955034, AC004834, AC006238, AC006050, and AI031774.
HTJMD95	6052	924240	1 - 459	15 - 473	
HTJMH80	6053	774407	1 - 549	15 - 563	W28136.
HTJMQ69	6054	754605	1 - 310	15 - 324	
HTJMR65	6055	729039	1 - 108	15 - 122	
HTJMT23	6056	948518	1 - 354	15 - 368	
HTJMT75	6057	766883	1 - 551	15 - 565	AI033483, and AA011410.
HTJMU34	6058	870316	1 - 688	15 - 702	AA248207.
HTJMU77	6059	771677	1 - 737	15 - 751	AA513791.
HTJMU87	6060	870315	1 - 303	15 - 317	
HTJMV80	6061	775766	1 - 658	15 - 672	T55626.
HTJMW42	6062	713132	1 - 506	15 - 520	AC007845, AC016025, and AC016026.
HTJMX71	6063	759910	1 - 490	15 - 504	
HTJNZ90	6064	787655	1 - 343	15 - 357	
HTJNB83	6065	766881	1 - 261	15 - 275	
HTJNC42	6066	713142	1 - 522	15 - 536	AA465661, and AB002390.
HTJNC53	6067	793328	1 - 320	15 - 334	AA311589, H14706, AA215801, R59006, H23078, H04923, T80563, and AA160069.

HTJND12	6068	870311	1 - 526	15 - 540	
HTJN142	6069	924726	1 - 360	15 - 374	AI147197, and AI307151.
HTJNK36	6070	924939	1 - 427	15 - 441	R61153, F07094, AC007845, AC016025, AC016026, Z79966, and Z56830.
HTJNM52	6071	795110	1 - 429	15 - 443	W39786, AL046597, AA089711, AA353463, and W07210.
HTJNQ25	6072	771941	1 - 553	15 - 567	AL118563, AA206533, AL118569, and AB023187.
HTJNR19	6073	781702	1 - 265	15 - 279	
HTJNS23	6074	870336	1 - 706	15 - 720	
HTJNV55	6075	931039	1 - 297	15 - 311	AA362919.
HTOAA48	6076	870027	1 - 327	15 - 341	
HTOAF15	6077	866201	1 - 1378	15 - 1392	AA552784, AA654062, AA654973, AC002565, AC004491, Z85986, AC000353, AF001548, AP000553, AC002115, AC004878, AC004883, AL031846, AC002316, U91321, AC005037, AC005488, AL022320, AC007021, AL049553, AL121595, and AC006120.
HTOAI35	6078	799686	1 - 108	15 - 122	
HTOAI69	6079	529555	1 - 247	15 - 261	AC007676.
HTOAI93	6080	751902	1 - 222	15 - 236	
HTOAK34	6081	966800	1 - 1271	15 - 1285	AW408167, AA491322, AA505126, AI340133, AA831203, N27153, AA053564, AA809481, AF181985, and AF179867.
HTOAK36	6082	921745	1 - 319	15 - 333	
HTOAO19	6083	954183	1 - 193	15 - 207	
HTOAO75	6084	530192	1 - 210	15 - 224	
HTOAT80	6085	530186	1 - 272	15 - 286	AC005071.
HTOAU62	6086	738214	1 - 386	15 - 400	
HTOAU94	6087	620370	1 - 514	15 - 528	
HTOAW19	6088	530114	1 - 189	15 - 203	
HTOAW26	6089	530116	1 - 97	15 - 111	
HTOAW37	6090	507322	1 - 378	15 - 392	H16881.
HTOBA06	6091	960618	1 - 382	15 - 396	
HTOBA10	6092	839919	1 - 389	15 - 403	AC002433.
HTOBE15	6093	715538	1 - 361	15 - 375	R43482, and R43481.
HTOBF03	6094	925407	1 - 303	15 - 317	
HTOBF07	6095	954184	1 - 127	15 - 141	
HTOBF35	6096	530325	1 - 302	15 - 316	
HTOBG27	6097	682263	1 - 441	15 - 455	N55594, and AF176915.
HTOBG70	6098	740977	1 - 134	15 - 148	
HTOBO11	6099	966734	1 - 553	15 - 567	
HTOCF92	6100	530009	1 - 399	15 - 413	R87130.

HTOCK26	6101	523838	1 - 363	15 - 377	AW449222, and AC006427.
HTODB23	6102	530149	1 - 296	15 - 310	
HTODC33	6103	921426	1 - 536	15 - 550	R70629, AW340510, AA743712, AI239711, AA934974, AA970927, AW296573, AA453769, AI242482, AA831667, AA278373, AI767205, AA292622, AA063568, AW361666, AW361612, AW361497, AA287288, AA035698, AW361613, AI219908, R30835, R27605, R70528, AA837400, AA938942, AW361673, AW361492, and AB018289.
HTODE04	6104	927826	1 - 329	15 - 343	
HTODE78	6105	530397	1 - 325	15 - 339	
HTODG07	6106	880911	1 - 203	15 - 217	
HTODG10	6107	968505	1 - 331	15 - 345	
HTODG16	6108	909952	1 - 478	15 - 492	AA252781, AW403969, and AL041242.
HTODG47	6109	799691	1 - 514	15 - 528	T58456, and Z93020.
HTODG55	6110	852560	1 - 357	15 - 371	
HTODG58	6111	869998	1 - 110	15 - 124	
HTODG60	6112	558007	1 - 405	15 - 419	AL035667.
HTODG83	6113	676384	1 - 122	15 - 136	
HTODH04	6114	925386	1 - 467	15 - 481	
HTODH37	6115	708892	1 - 419	15 - 433	
HTODL81	6116	507295	1 - 339	15 - 353	Z55019.
HTODL85	6117	799701	1 - 430	15 - 444	M85453, AL031313, AC005027, AC007380, AC006059, AC004065, and Z97198.
HTODM58	6118	811293	1 - 208	15 - 222	
HTODN21	6119	869967	1 - 150	15 - 164	
HTODN27	6120	684343	1 - 413	15 - 427	AFI50267.
HTODN68	6121	527862	1 - 310	15 - 324	AF000996, AF000995, AF000994, and AC006376.
HTOEA06	6122	960551	1 - 300	15 - 314	M85667.
HTOEA12	6123	967754	1 - 345	15 - 359	
HTOEA25	6124	523546	1 - 115	15 - 129	
HTOEC81	6125	529834	1 - 205	15 - 219	
HTOEC94	6126	529839	1 - 289	15 - 303	AC004168.
HTOED10	6127	839798	1 - 305	15 - 319	AB033094.
HTOED61	6128	742158	1 - 326	15 - 340	
HTOEG69	6129	967562	1 - 136	15 - 150	
HTOET10	6130	968492	1 - 304	15 - 318	
HTOEV37	6131	774641	1 - 127	15 - 141	N68224, N67354, AA534053, AA555161, H08147, AI973260, T49754, AA559007, AA741221, AA741406, AI889391, AI815170, AW152571, AW148470, AI801172, R17748, AA559008, AI361148, AI149828, AI535872, AI862762, AI335343, AI687528, AA873283, AI887750, D56730,

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HTOEV40	6132	529822	1 - 416	15 - 430	AC006031.
HTOEV50	6133	529820	1 - 207	15 - 221	
HTOEY72	6134	659494	1 - 242	15 - 256	
HTOFA04	6135	845519	1 - 117	15 - 131	AI680192, AA365356, AC006353, Z95703, AC004945, AI023578, AC005280, AC005951, AI109837, AC002485, AC007876, AI035593, AC006925, AC002558, AI035209, AC006442, AF112374, and AC010077.
HTOFB55	6136	723256	1 - 285	15 - 299	
HTOFB73	6137	742153	1 - 193	15 - 207	AL039392, AL043102, AC003010, and AB002368.
HTOFC70	6138	811291	1 - 342	15 - 356	
HTOFD10	6139	968469	1 - 260	15 - 274	AL031733.
HTOFD31	6140	529674	1 - 190	15 - 204	AL132987.
HTOFD57	6141	529673	1 - 290	15 - 304	AI693633.
HTOF005	6142	932662	1 - 86	15 - 100	AL023553.

HTOFQ41	6143	529617	1 - 102	15 - 116	
HTOFQ48	6144	720880	1 - 303	15 - 317	AA083844, and AC009464.
HTOFT22	6145	939903	1 - 2369	15 - 2383	
HTOFT34	6146	527144	1 - 257	15 - 271	
HTOGA06	6147	960554	1 - 295	15 - 309	
HTOGA25	6148	529959	1 - 173	15 - 187	
HTOGA35	6149	751989	1 - 517	15 - 531	W24682, N36613, T97784, AW450574, AW007560, T79529, W44828, T81699, AA279071, A1492367, W73735, A1767757, W73412, A1650834, and AF086296.
HTOGA51	6150	530331	1 - 109	15 - 123	
HTOGB55	6151	781591	1 - 387	15 - 401	AA336963, and AA835914.
HTOGB92	6152	529810	1 - 316	15 - 330	AC006211.
HTOGC16	6153	927835	1 - 124	15 - 138	
HTOGC20	6154	960094	1 - 331	15 - 345	
HTOGD28	6155	529806	1 - 334	15 - 348	
HTOGD43	6156	650846	1 - 312	15 - 326	
HTOGD50	6157	529805	1 - 421	15 - 435	AA805738, and AC004527.
HTOGI75	6158	869973	1 - 320	15 - 334	
HTOGI86	6159	507294	1 - 319	15 - 333	AL024508.
HTOGR50	6160	529824	1 - 230	15 - 244	
HTOGR65	6161	618316	1 - 616	15 - 630	
HTOGU30	6162	961776	1 - 92	15 - 106	AC005530, AB023048, and AP000511.
HTOHB03	6163	924986	1 - 621	15 - 635	
HTOHB42	6164	714073	1 - 353	15 - 367	
HTOHB66	6165	966688	1 - 756	15 - 770	T95688, and T95163.
HTOHC78	6166	577745	1 - 310	15 - 324	
HTOHC84	6167	537370	1 - 343	15 - 357	
HTOHD27	6168	799676	1 - 189	15 - 203	
HTOHE53	6169	531172	1 - 268	15 - 282	
HTOHG55	6170	537366	1 - 238	15 - 252	AA229326.
HTOHI60	6171	740611	1 - 328	15 - 342	
HTOHL22	6172	968308	1 - 230	15 - 244	
HTOHL35	6173	537364	1 - 217	15 - 231	
HTOHM54	6174	537363	1 - 261	15 - 275	AC007845, AC016025, and AC016026.
HTOHN24	6175	971728	1 - 129	15 - 143	
HTOHN42	6176	537362	1 - 176	15 - 190	AF076455, and AL034421.
HTOHP13	6177	530350	1 - 403	15 - 417	AA465694.

HTOHS32	6178	678071	1 - 252	15 - 266	AL133485.
HTOHS68	6179	507136	1 - 336	15 - 350	AC005531.
HTOHU09	6180	920734	1 - 155	15 - 169	
HTOHV29	6181	527865	1 - 403	15 - 417	
HTOHX74	6182	507139	1 - 455	15 - 469	AC004020.
HTOHZ61	6183	537371	1 - 392	15 - 406	AL035079.
HTOIA12	6184	851032	1 - 532	15 - 546	
HTOIA68	6185	584946	1 - 331	15 - 345	
HTOIJ67	6186	537354	1 - 342	15 - 356	
HTOIK06	6187	954518	1 - 316	15 - 330	
HTOIK08	6188	959996	1 - 587	15 - 601	AA521458, AA465140, AW268432, AI018232, and Z85996.
HTOIN17	6189	537322	1 - 365	15 - 379	
HTOIO29	6190	506720	1 - 410	15 - 424	
HTOIO36	6191	537320	1 - 277	15 - 291	
HTOIO79	6192	537321	1 - 308	15 - 322	
HTOIP32	6193	869941	1 - 457	15 - 471	M62242, AA632589, AA654874, AI380617, AA548921, AA405475, AA078450, AI500315, AA713720, AA478369, H94979, AP000300, AC007051, AC007919, AC005592, AC004475, AF190465, AP000113, AP000045, AL109758, AL031665, AL035422, U07562, AL121580, Z98200, AL049776, AC006211, D31872, I25849, AL031427, AC005005, AC006480, AC006006, A65971, AP000238, AC002550, AC003662, AP000094, AL031289, AC003109, AC006511, Z97195, AP000283, AP000284, Z84477, AC004084, AP000040, AP000108, AP000356, AC005971, S48539, U93096, L29349, L29348, X17648, A28928, AL023799, AF108459, AC005745, AP000288, AB004907, AL096805, AP000543, AF149773, AP000544, Z82190, AP000109, AP000041, AC012627, Z95329, Z95331, Z95400, AC007666, AL035455, AC006285, AC005154, AC007934, AC005535, AC007395, AC002307, AC007371, AC007486, AL031283, AC006536, and AL022318.
HTOIP53	6194	557824	1 - 295	15 - 309	
HTOIQ05	6195	932440	1 - 395	15 - 409	
HTOIR12	6196	537319	1 - 272	15 - 286	
HTOIS27	6197	485268	1 - 493	15 - 507	
HTOIT32	6198	418666	1 - 81	15 - 95	
HTOIW02	6199	920752	1 - 229	15 - 243	AB032254.
HTOIW40	6200	669595	1 - 257	15 - 271	AL133241.
HTOIY09	6201	836003	1 - 518	15 - 532	
HTOIZ34	6202	707039	1 - 228	15 - 242	N44119, AI560189, AC005670, AC004675, AF088219, and AC005332.
HTOIA65	6203	456824	1 - 547	15 - 561	

HTOJA83	6204	574764	1 - 343	15 - 357	AL035209.
HTOJA96	6205	968510	1 - 256	15 - 270	
HTOJB59	6206	574761	1 - 432	15 - 446	
HTOJB67	6207	726577	1 - 589	15 - 603	
HTOJF65	6208	715820	1 - 331	15 - 345	
HTOJG08	6209	869926	1 - 152	15 - 166	
HTOJJ24	6210	766963	1 - 378	15 - 392	
HTOJJ17	6211	574735	1 - 488	15 - 502	H50743, W89032, and AC004908.
HTOJK48	6212	574348	1 - 424	15 - 438	
HTOJK79	6213	531320	1 - 392	15 - 406	
HTOJK84	6214	952741	1 - 616	15 - 630	AC002480.
HTOJL55	6215	825165	1 - 197	15 - 211	
HTOJL71	6216	574529	1 - 186	15 - 200	
HTOJM06	6217	936089	1 - 870	15 - 884	
HTOJM70	6218	799689	1 - 305	15 - 319	
HTOJS81	6219	711021	1 - 395	15 - 409	
HTOJT90	6220	921016	1 - 457	15 - 471	AA248014.
HTSAA22	6221	415775	1 - 436	15 - 450	AA295824, and AL034374.
HTSEU58	6222	521995	1 - 284	15 - 298	AA055031, AI693951, and AC000353.
HTSFZ77	6223	935620	1 - 253	15 - 267	
HTSGB93	6224	526625	1 - 518	15 - 532	AA725078, AI040862, N90022, AI453081, AI023972, W52909, AA037352, AI470313, and AL035562.
HTSGM65	6225	576062	1 - 422	15 - 436	AI334632, and AI308136.
HTSGW24	6226	971724	1 - 597	15 - 611	AF111170.
HTSHA61	6227	960474	1 - 289	15 - 303	
HTSHD86	6228	773726	1 - 597	15 - 611	
HTSHF47	6229	720403	1 - 314	15 - 328	
HTSHM38	6230	972248	1 - 604	15 - 618	AI907172, C14389, C15076, D59467, D80164, D59787, D81026, D59610, D51799, D58283, C14331, D80022, D81030, D80043, D80241, D80038, D59502, D59859, D80227, D80166, D80195, D51423, D59619, D80210, D80391, D59275, D80240, D80253, D80212, D59927, D80196, D80188, D50995, D80219, D80269, C14429, D57483, D80366, D50979, D59889, D80193, D80251, C14014, D52291, AW177440, AA305409, D80378, D80024, D51022, D80045, AA305578, AW378532, D80522, T03269, AW178893, D51060, C75259, T11417, AA514188, AW179328, D80248, AW369651, D51250, AW352158, D80134, D58253, C14077, AW178762, AW17875, AW177501, AW177511, C14407, D80268, AA514186, D80133, AW176467, AW360811, F13647, AW377671, AW352117, C05695, AW375405, D80132, AW378540,

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HTUAA40	6231	522671	1 - 406	15 - 420	AA127486, AL035460, AL035416, U35114, and AC006449.
HTUAA86	6232	522076	1 - 82	15 - 96	AL096763, AC005822, AC006023, AL031432, and AL009174.
HTWAB64	6233	522058	1 - 273	15 - 287	AA442624, AI382107, AA058620, AI526078, AI557241, AI541450, AI541346, AI557039, AL133054, A82595, and A82593.
HTWAH16	6234	880725	1 - 231	15 - 245	AL031733.
HTWAH51	6235	614968	1 - 290	15 - 304	
HTWAM50	6236	753217	1 - 220	15 - 234	AL135521, AC010205, AC005409, AB033034, and AC005501.
HTWBD74	6237	716756	1 - 305	15 - 319	
HTWBE77	6238	781306	1 - 761	15 - 775	AA058683, AA040633, AI803614, AI798615, AA911057, AI291722, AW057620, AI560233, AI188314, AI393726, H08739, R43944, AI693931, AW082226, AW275123, AA167619, AA831569, AI347306, AA806447, AI819648, AA885238, AI245489, AW269885, AA768000, AA600827, AI074850, AA877438, W38388, AA279508, AW262944, AA036773, N23012, AW051434, AI857899, AA588347, AA030007, AA015960, D20147, AI803231, AI127521,

					T32672, AF735278, AA704386, AA843110, AA917442, C05802, AI352677, AI025668, H38239, AA707841, AI868263, AI858616, AW169215, N67579, AI279308, N74142, AI077379, AA481526, AI270213, AA860535, T32404, AI740488, AI198665, AA886915, AI888951, AA045510, R31555, AA814461, T51964, AI986378, Z38808, N71944, N79918, H60835, R38175, AI581778, AI826300, N76294, R32017, AW021734, AA527736, AA652302, N71789, AA939173, T52044, T36198, AW194484, AA279782, R39771, AI669733, AA317052, T18548, D58098, AF176700, and AF052097.
HTWBF61	6239	579041	1 - 257	15 - 271	
HTWBF65	6240	576623	1 - 593	15 - 607	AI216401.
HTWBF82	6241	854019	1 - 330	15 - 344	T78602, AI703465, AW388902, AW388986, AW389009, AW388910, and AI640865.
HTWBG40	6242	711271	1 - 463	15 - 477	R93076.
HTWBH73	6243	708331	1 - 290	15 - 304	
HTWBJ15	6244	842014	1 - 616	15 - 630	AA146979, AA147158, AL120141, AI962030, AA630854, AA904137, AA846923, AI783911, AI653776, AI560085, F35097, AW028950, AW082104, AA084609, AA890319, AA102737, AA581247, AA206230, AI291419, AW337381, N48130, W02749, AA715506, R93919, H54252, R83402, AI749578, AA279919, H53284, AA122307, AA452887, AA535756, AA491767, AC004858, AF109907, AC002347, AC005399, AL117258, AC004983, AP001058, AL049829, AC006312, AL021393, AC002302, AJ003147, Z79998, AC007637, AL031427, Z97353, AF196971, AC006241, AP000362, AF111168, Z97054, Z86090, AL078611, AL117330, AC002477, AL035462, AC000029, AC006101, AC002094, AC005180, AL022326, AL133312, AL049874, AC005932, AC004253, AC005102, AC002432, AF130343, AC003667, AF006501, AC005049, Z85986, AC005082, Z84469, AL035684, Z85996, AC005625, AC005476, AC006538, AC005015, AC020663, AC007666, AC006285, AL049743, AD001527, AL030996, AC010170, U95740, AF196970, AC004859, AL031284, AC005514, AC003950, AC005412, AL109854, AC002418, AC004598, AL031587, Z83843, AL023803, AF091512, AC002563, AC005736, AC004386, Z84466, AC006512, AC004257, AC005821, AL022069, AC007488, AC004216, Z69921, AC004950, AF001550, AL022323, AC006057, AL035422, AF196779, Z95331, AL078593, AC002369, AL121578, AC006511, AC003043, AL021878, AE000658, AL050341, AC000353, AL033525, AC004655, AL022396, AC007227, AC002115, AC006582, Z75407, AC002404, AC005184, AL031662, AP000045, AC003982, U91321, AC004000, AC003663, AC004890, D42052, AL031279, AC003010, AL031447, AC008134, AC004815, AL050307, AC007376, AF196969, AC005620, AL121653, AC004033, U52112, U85195, Z48051, AC002991, AC005274, AC003004, AC005379, AC009247, AF104455, AF207550, AP000512, AL035089, AL022318, AL034419, AL049766, AC004967, AL049697, AC004765, AF003626, AL031281, AC004985, AL023553, AL096755, AL022328, AL050309, AB000882, AL109984, AC006126, AC002554, AC004217, AC002091, Z94056, Z82201, AC005088, AC006162, AL031228, AL031291, AC005694, AL079342, AC005193, AC005562, AC005220, AC005261, Z84487,

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HTWBJ71	6245	935647	1 - 331	15 - 345		
HTWBL88	6246	784364	1 - 166	15 - 180		
HTWBN85	6247	577510	1 - 272	15 - 286		
HTWBO55	6248	732182	1 - 563	15 - 577		
HTWBR04	6249	787303	1 - 305	15 - 319		R56200, AI393984, AA780790, H06076, and AI287520.
HTWBZ01	6250	578678	1 - 90	15 - 104		AA333449, AI123407, AI611123, AF090834, AF097832, and AF153679.
HTWCA19	6251	582498	1 - 547	15 - 561		AI475768, D89870, and AC004152.
HTWCA76	6252	770109	1 - 363	15 - 377		AL035209.
HTWCD27	6253	658018	1 - 449	15 - 463		
HTWCD40	6254	670812	1 - 466	15 - 480		AW151761, AI917132, AA807704, AL041375, AW089016, AI499954, AA610255, AI791659, AA742815, AI572680, AA297776, AA720582, AA528390, AA846923, AL079734, AW192373, AA808861, AA584655, AA192293, AA904211, AI762528, AI674840, AI206841, F35684, AA229988, AI636422, AI567676, AA584594, AL038842, AI355246, AA282951, H66021, AI912401, AI921765, AW275432, AA452887, AA633875, AA485831, AW151541, AI709174, R70333, AI078409, T47138, AW272815, AA581247, AA601674, AA015948, AI370470, AA568314, AI189682, AI719142, AA633799, AW419389, AW403829, H45698, AA489390, AI634377, AI538404, AA502207, AA669234, AA315361, AI338426, AA634242, AA493226, AA558404, AA160563, AW161016, AI860423, AW302017, AA651639, AW029269, R70883, H63660, AI434037, AW020150, AI537368, AI521525, AI583291, AA714011, AI590404, AI479068, AI565126, AW166611, AI610737, AA405726, AA503298, AI242614, AI904840, T49933, H81406, AI537995, AI536858, AI130709, AA492105, H29914, AA613624, AA182731, AI457313, AI634187, AA808725, AW069227, AI887606, AI690497, AI627614, AA425924, AI554435, AA599423, AI289505, AA603413, R81167, AI915081, AW162750, AI690892, AA356376, AA568204, AA570740, AA600202, AA483606, AA574000, AI114494, AA578621, AA636077, AA469327, AA654482, AA719564, AI926102, AA479877, AA613616, AA565232, AL039309, AW089550, H67064, AA526339, AI792439, AW272640, AI469599, AA506734, AA299589, AA877992, AA564587, AA507291, AA740571, AA186905, AW105463, T50061, AI310992, AI300818, AA741403, AA158549, AW190484, AA878058, AA574009, AW188742, AA237098, AA610433, AA582746, AI285493, AI282623, AW270385, AI431513, AA661583, AI312090, AW023111, T52772, AA341865, AW069537, AW151247, AI963856, AA484191, T03576, AA583386, AA603567, AW341882, H64099, AA631915, AI653776, AW029618, AA135761, AI923052, AA397821, AA701122, T41134, AC005274, AP000359, AI035420, AC002430, AC003692, AC007384, AC002400, AC004797, AC005081, AC007536, AC002375, AF053356, AL133163, AL049776, U15422, AF104455, AF030453, AF134726, AC003667, AC006480, AP000557, AC007686, AC007842, AL109758, AL096701, AC007227, AC007225,

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HTWCE72	6255	575962	1 - 258	15 - 272	AC005609.
HTWCF06	6256	935641	1 - 359	15 - 373	
HTWCF25	6257	924008	1 - 365	15 - 379	
HTWCF94	6258	747197	1 - 438	15 - 452	AC002394.
HTWCG45	6259	548176	1 - 469	15 - 483	AL047485, AI525707, AW277133, AA069701, AA557394, AA194689, AA574454, AW265297, AA195832, AA194667, AA195966, AA196489, AI800403, AW276795, AA225324, AA214115, AI224582, AA468474, AA476566, AI557286, AA225999, AI979036, AI811220, AI133661, AA211763, AI633184, AA469255, AA211596, AA192886, AA595622, AA657462, AA186825, AA194458, AI679588, AA470537, AA528310, AI801080, AA209532, AI719397, AA179143,

AW238475, AI1814919, AA181619, C18265, AA155828, AI610706, AW089180, AA484839, AA083306, AA634058, AA737897, AA187883, AL047893, AA525084, AI8722301, AA479600, AW238789, AA213985, AI061642, AA860867, C18277, AW095129, AA194404, AI824392, AA631703, T26587, AI525770, AI250348, AI673303, AW238144, AA179138, AI525791, AA429224, AA838589, AA196781, AA088344, AA192592, AI917262, AA074664, AA112798, AA247638, AW008146, AA095408, AA226271, AA151483, AA092039, AA642186, AA177056, AI095387, AA092107, AA248330, AA642175, AA091037, AW275750, AA633057, AA112995, AI697349, AW238314, AA292360, AA663850, AW277035, AW265312, AA090203, AA216061, AL047741, AA226322, AW275662, AA095124, AA559867, AA916829, AA627181, AA081729, AA854141, C17397, AI174972, AA469304, AI880078, AA578913, AA079382, AA469393, AA216350, AI132965, AA249130, AA177071, AI208527, AI537363, AA573620, C18266, AA654020, AA714972, AA524639, AA826906, AA650353, AW275561, AA091539, AI174763, AA630875, AW263751, AA173559, AW275661, AI718131, AA225870, AI525751, AA226408, AA196553, AI814555, AL046894, AA094732, AA508665, AW165968, AA468115, AI922769, AA151506, AW440190, AW276956, AW084348, AA094128, AA896959, AW129103, AI536688, AA089613, AI949077, AA189043, AW275643, AA703366, AA477938, AI525849, AW272789, AA134283, AA095851, AI719472, AI499067, AA558658, AI541366, AA558403, AA468482, AA654549, C17273, C17946, AA226076, AA089630, AA091708, AA492348, AI204936, AA814643, AA194489, AA248732, AW238041, AA513235, AA494196, AA089920, C17080, AA729738, AA649823, AA847033, AA095469, AA092038, AA219735, AA100669, AA229262, AA554118, AA102398, AA216292, AA248481, AI114451, AA467764, AI476093, AI581792, AA602257, AW275693, AA093852, AI619677, AA719867, AA558878, AA532937, AA204856, AI061586, AA657703, AI253440, AA627177, AW238598, AA935979, AW270359, AW275419, AA602241, AA492056, AA095108, AW275635, AI525757, AA610624, AW167759, AA610227, AA468341, AI253292, AA216030, AA094513, AW275636, AA094243, AW265262, AI253294, AW238550, AI061658, AI133246, AW438410, AA095157, AA531316, AA193039, AA657680, AI926208, AI525263, AR028448, V00710, D38112, X93334, D50525, X62996, V00662, J01415, D38116, D38113, X93335, D38114, X93347, X99256, X97707, D38115, Y18001, X02226, AF029308, U66061, U39004, X99189, M86494, AI245896, AF203726, AF179288, U38999, AF054990, AI010813, U97343, AF069540, AF203773, AI010812, AB032844, AB032842, AI010815, AI010816, U97337, AF034253, AJ002189, X97336, U63486, X79547, M35877, AI010814, U63487, U63505, AF089815, V00665, AC004035, AF076646, V00711, L07095, L07096, U39007, X97337, L10336, X70496, U39008, U38998, AJ001562, U97338, U39012, U39003, U97339, Y18475, AJ010817, X61145, AF203727, AF072424, AF027994, U97340, M86493, M55539, X72204, AF203740, AF027998, AF069538, AJ010957, U39002, Y11832, AF072413, U39009, AF072427, AF072426, AJ001588, AF039436, Z48940, U39006, AF203737, AF004338, Z18651, Z48938, U97336, Z18657, U13121, Z48942, AJ224821, AF203739, U63492,				
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HTWCG65	6260	869547	1 - 300	15 - 314	<p>U38997, AF072420, U63496, U13102, U63494, U13124, Z18645, Z18655, AF203774, AF061340, U13112, U63501, U63500, AF072428, U63504, U63489, U63502, AF072429, A89723, AF072430, Z18659, AF058292, U63498, U63510, U63491, AF072414, U63508, Z18661, and U63495.</p> <p>AI624279, AW080402, AI571861, AI684234, AI269862, AI917055, AW090071, AI284517, AL040243, AI318280, AW149227, AW148716, AI683475, AI567993, AW150578, AI560099, AI801325, AI500662, AL079963, AL045266, AW087445, AI275175, AI499381, AI308035, AL036361, AW151138, AI433976, AW059713, AW170635, AI364788, AL045500, AI433157, AI434223, AA508692, AI539771, AI636445, AI537677, AI500659, AI500523, AW274192, AI610362, AI612920, AI500706, AI491776, AI445237, AI572787, AW302988, AI564719, AL039086, AL039276, AI702433, AI783504, AW082113, AL044207, AI620284, AI637584, AI620287, AI590118, AI815855, AI345416, AL042551, AW071349, AL121328, AI433037, AW302973, AW268060, AI633493, AI289937, AI281773, AL049085, AI480118, AI499463, AL119748, AI312428, AW301409, AI613017, AL119791, AW301505, AI539153, AI590415, AI284509, AI349598, AI815232, AI249323, AW008048, AL036736, AI345612, AI538716, AA427700, AI559296, AI955917, AI862139, AW132056, AI308032, AI696612, AI274508, AI476046, AI873644, AI890833, AI926790, AI889376, AL036403, AI524671, AW051258, AI921248, AI873704, AI498579, AI619502, AI677796, AI802542, AI886753, AW026882, AI254042, AW071417, AI702073, AI273142, AI758437, AL036396, AL038605, AI800453, AI800433, AW088903, AI571551, AI554245, AI568870, AI224992, AI362637, AL036146, AW088793, AI699857, AW169653, AI801544, AL043981, AW074993, AA287231, AI440239, AW117882, AI679764, AW243820, AI282903, AI491852, AI816010, AW262565, AI872545, AI497733, AI624206, AL042628, AI919058, AI476109, AL110402, AL121270, AI468872, AI349645, AI521012, AI270707, AI348897, AI570989, AA225339, AI335426, AI348777, AI349004, AI284131, AW169671, AW131282, AI539808, AI923509, AI281772, AI950664, AW268220, AW103371, AI590120, AI682841, AI571909, AI632408, AI569583, AI064830, AI436456, AI499285, AI648684, AI567940, AI340582, AL134999, AW183382, AL036980, AI862144, AI621209, AW104724, AI612913, AW023590, AW132001, AI745713, AI866608, AL047763, AW075413, AW059837, AI863014, AW168795, AI702406, AI570384, AI274013, AI252813, AI857296, AI500146, AI453322, AI499512, AI859511, AW002342, AL119049, AI569616, AI824557, AI475451, AI872711, AL041150, AI591316, AI623396, AI439350, AI269205, AI349256, AI799199, AI554427, AI889133, AW082040, AI612885, AW102785, AW103893, AA974049, AI561299, AL038779, AI269696, AI648663, AI868831, AI888953, AI254251, AI886124, AW238730, AL038565, AW089572, AI281779, AI633419, AI627909, AI445165, AW183130, AI536685, AI866002, AL036274, AI922901, AI282326, AI828731, AI633125, AW162071, AL133080, I89947, E02349, A08913, AL049314, I48979, A08916, AF093117, I48978, AL137459, AL050108, AF113676, AF113690, AF118070, AL133075,</p>
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HTWCG69	6261	575950	1 - 298	15 - 312	AF113677, I89931, AL110221, AF158248, I49625, AL050393, AF090900, AL049466, AF125949, AL117585, AF017152, E03348, AL137557, L31396, AL080060, L31397, X84990, AF177401, U42766, AL122121, AF113694, A000937, AL117460, AL117457, AB019565, AF104032, AF113019, A08910, E07361, AL122050, AL110225, AL137550, Y11587, AC006371, AL133560, AL050146, AF090896, AF090901, X82434, A65341, AF113699, AF113013, AJ242859, AR059958, AF090903, AL050116, S68736, AL122093, AF078844, AF111851, X63574, AL049452, AL133640, AL133557, AL080124, AL122123, AF118064, S78214, AF125948, AF106862, AF091084, AF017437, Y16645, Y11254, AL110196, AF113691, AL133016, AL133606, AF079765, AF090934, AF113689, AF146568, AL117394, AL133093, A93016, AL137527, AL049464, AF118094, AL080137, AL050138, AL133565, AL050277, AJ238278, AL050149, AR011880, AF090943, AF183393, AL117435, AC007869, AL049300, AL049938, AL117583, AC009233, AL096744, U91329, A08909, E07108, A03736, AL137283, AF067728, AL049382, Z82022, AL080127, I33392, AL133113, A58524, A58523, U00763, AL049430, AL137271, AL137538, U72620, I03321, A77033, A77035, AF179633, A08912, AL050024, AL122098, AL137648, A12297, X96540, AF097996, AL137521, X98834, AL122110, X72889, AL137463, X70685, U35846, AF061943, AC004833, U80742, AL049283, AC004943, AL110197, AF087943, X65873, AC006115, AL122049, AC006222, X93495, AF111112, and AL133072.
HTWCG69	6261	575950	1 - 298	15 - 312	
HTWCI42	6262	713022	1 - 258	15 - 272	
HTWCK07	6263	953482	1 - 413	15 - 427	AF017104.
HTWCL29	6264	740327	1 - 67	15 - 81	
HTWCM36	6265	971129	1 - 758	15 - 772	
HTWCM56	6266	662321	1 - 549	15 - 563	AA215701, AA410338, AA406248, H47628, AA215700, and AA662185.
HTWCN33	6267	577494	1 - 463	15 - 477	AI760702, AF111105, U43186, AR008277, and AR008281.
HTWCN83	6268	573580	1 - 487	15 - 501	
HTWCR25	6269	575959	1 - 324	15 - 338	AC006502, and AL035692.
HTWCS11	6270	967190	1 - 190	15 - 204	AC008394.
HTWCT42	6271	713870	1 - 253	15 - 267	
HTWCT61	6272	575975	1 - 447	15 - 461	AL023096.
HTWCX32	6273	669745	1 - 172	15 - 186	AW027225, and AW027591.
HTWCY05	6274	920337	1 - 346	15 - 360	AA807061, and C01387.
HTWCY69	6275	809553	1 - 356	15 - 370	
HTWDB72	6276	835624	1 - 445	15 - 459	AL031595.
HTWDF82	6277	921697	1 - 411	15 - 425	
HTWDH14	6278	669560	1 - 541	15 - 555	AW239198.
HTWDH75	6279	767368	1 - 479	15 - 493	AA021481, AA001501, AA253163, and AW080520.

HTWDM43	6280	715352	1 - 413	15 - 427	AI240780.
HTWDN01	6281	916680	1 - 325	15 - 339	
HTWDN17	6282	664115	1 - 331	15 - 345	
HTWDQ60	6283	575939	1 - 92	15 - 106	
HTWDS35	6284	697825	1 - 393	15 - 407	
HTWEA61	6285	965453	1 - 541	15 - 555	AI633883, AI478126, AW002533, AC004815, and U88834.
					AI038664, AI051237, D82747, AI372493, AA302328, T48533, AW163010, AW275741, AW292131, AW149580, AW021288, AA148318, AA329440, AW270647, R12857, AA862706, AA342697, T27330, AA719848, T79010, AI026832, T69962, AA176086, AI676163, T69912, AA386145, H20652, T24661, AA337850, AA349447, AA593861, AA373966, AA355685, AW270806, N84238, AA199620, AA090164, D31885, AF223953, and AF172088.
HTWEC63	6286	735003	1 - 258	15 - 272	
HTWED17	6287	663714	1 - 377	15 - 391	
HTWED28	6288	686598	1 - 386	15 - 400	
HTWEG12	6289	970538	1 - 356	15 - 370	
HTWEH16	6290	661860	1 - 213	15 - 227	
HTWEJ14	6291	792648	1 - 451	15 - 465	
HTWEM37	6292	449136	1 - 472	15 - 486	Z99714.
HTWEM63	6293	745024	1 - 334	15 - 348	
HTWER78	6294	836799	1 - 460	15 - 474	AW364808, AI559215, AA923746, AA836012, AW327798, AI335646, AA724748, AA009478, AA452221, AA620709, R79719, and AA422169.
HTWEST5	6295	767257	1 - 255	15 - 269	
HTWEU29	6296	711673	1 - 525	15 - 539	R53304, AW003115, R24971, Z45348, R06583, AA354539, R00344, F08048, AW175634, T89050, AA352746, H67220, AA344337, AA300562, T79104, AA315109, H51867, AW404159, AF069984, and AF069987.
HTWEX09	6297	625458	1 - 280	15 - 294	AC006389.
HTWEX18	6298	666305	1 - 488	15 - 502	
HTWEY30	6299	918641	1 - 704	15 - 718	AA059489, AW075945, W39013, AA040567, AI096342, AI268275, AA293239, AI200654, AI589359, H01352, AA505695, AI809808, AA873453, AA770600, AW005912, AI801978, AI698096, AA281486, AI703059, AI916594, AI703132, N90227, AW007805, AI459224, AI694044, AI744499, AI279707, AA827910, T58767, R32147, AI375599, AI630768, AI040897, AI697705, AA604916, W58385, AA487704, AW027528, R32148, AA406413, AI804406, AA625413, AI193139, AI377494, AI218362, AA410354, AA403249, H13466, H26699, AA411298, AI393731, AI936297, AI366815, N34404, AI694262, AI189875, AW072309, AI420673, AI375598, AI245296, AA911276, AI301717, AI580797, AI348624, AA989442, AI342929, AA478946, AA468790, AA406322, T94659, AW015590, R82573, AI142053, AI245287, T94308, AI034416, AA856758, AI369708, R64474, AI298484, AI382919, R08179,

HTWFB37	6300	708908	1 - 150	15 - 164	AA968824, AI919216, AA045499, R66761, AA301164, N40439, AA862267, H12482, AW075870, AA909426, N26406, H01306, R65586, AA330943, AA988873, R32091, AI074686, AA700656, AW085943, AA281713, AI784080, AA969464, AI473229, N48474, R82516, D45627, AI632296, AI695369, AI494115, R65578, R64489, H13422, AA889103, AA171756, AA487490, AW166636, AA988552, AA909799, T47762, AA171994, D59192, AF036549, and AF036548.
HTWFB75	6301	767253	1 - 400	15 - 414	AL120304, AL042433, and AL119341.
HTWFF46	6302	869499	1 - 415	15 - 429	T12305, and AC004765.
HTWFG44	6303	935270	1 - 581	15 - 595	AI828449, AI300539, AI624022, AW076128, AA733063, AA161130, AI076905, AW271222, AW276047, AI687613, F25075, AW243801, AA570095, AI248876, AI123429, AA099709, N78559, AA612778, AI692287, AI272255, AI002324, C75244, AI758604, AI524505, and N73712.
HTWFI19	6304	668579	1 - 346	15 - 360	
HTWFK15	6305	869498	1 - 282	15 - 296	AL132992.
HTWFM20	6306	917272	1 - 522	15 - 536	AL031733.
HTWFN64	6307	757593	1 - 520	15 - 534	AA599080, Z82206, AC005015, D87675, AL133243, AL031432, AP000113, AC004882, Z98884, Z98946, AC005971, AC006530, AC007766, AF165926, AC005081, L78810, Z83826, AC002375, AC004447, AC000085, AL034548, AC005387, AL079342, AP000346, AC005089, AC006960, Z99716, AC004491, AF045555, Z98051, AL023553, AL121653, AC002126, AC000039, AP000045, AC002425, AC005736, AC007292, AL121769, AP000555, D84394, AL080242, AC006130, AP000511, AC004000, AC006538, AC006468, AC007546, AL135744, AL050332, AC005180, AC005874, AF134471, AC005793, U95740, Z95152, AC002470, AC005335, Z93930, AL050307, AL096763, AC005933, U91326, AP000088, AL022476, AC000026, AC005622, and AC002544.
HTWFO63	6308	658473	1 - 144	15 - 158	AA608873, and AA722048.
HTWFP14	6309	869489	1 - 356	15 - 370	
HTWFP33	6310	916562	1 - 670	15 - 684	
HTWFP53	6311	721768	1 - 391	15 - 405	
HTWFR17	6312	663697	1 - 380	15 - 394	AC008116.
HTWJA24	6313	954881	1 - 524	15 - 538	AA634223, and AA018611.
HTWJA59	6314	812705	1 - 266	15 - 280	AA579184, F36373, AI348731, AI049986, AW074398, AW075915, AA732212, AL040462, AI611902, AA579278, AL119259, AI284467, AA078483, AI205181, F28576, T69214, AA730362, AI569086, AW274197, AW265197, AI624528, AI753365, AW088049, AI079910, AW161495, AA484262, AI814820, AA595841, AI821044, AW161522, AW160880, AA747889, AL079645, AL042856, AA366035, AI053477, AW021917, AW264969, AI205126, AA641103, AW087946, AL040913, AA167741, AI925040, AL046746, AL041450, Z99394, AA504951, AA878140,

AA618242, AI053522, AI034326, AA516207, AI338209, AI792864, AI733957, T48723, AA639025, AW080134, H64777, AW338500, AI434144, AI963786, AA523276, AA515435, AA569202, AW193546, AI708005, AI819569, AI962050, F32893, AW103383, AA669961, AI653515, AA159478, AL120502, F29989, AI082510, AA557879, AI291823, AI252085, AI160117, AA653291, AI312790, AI039809, AI039187, AI336054, F37223, W60516, AA179136, AI355587, AI358229, AI762575, AW406755, AI254798, AI863339, AW327961, AI783911, AI365988, AA713815, AW265294, N25042, AW327960, AI252114, AI977817, AI926846, AI472442, AI536625, AW339687, AI679782, AI285615, AA558697, AW265654, AI904894, AI792903, AL137954, AI471418, AW419161, AA441788, AI635272, AI734002, AA229785, AA482711, H72688, AA714595, AA593471, AA669102, AI624212, AI251002, AW103239, AI623898, AI792130, AI281474, F36273, AA626678, AA745410, AI801205, AA632517, AI073888, AI287832, AA563770, AL119025, AI287651, AI929531, AI791610, AI499094, AI792337, F13749, AW166815, W90237, AI284640, AW069807, AI818620, AW390062, AI624024, AI917271, AW029038, AA584489, AI038279, AL118911, AI446464, AW162049, AA533408, AI358343, AW341903, AW245711, AW271917, AW238016, AI887483, AW118011, AI890923, AA508578, AA847340, AA557325, AW270270, AI862716, AW373604, AI079804, AA515051, AW162489, AI370475, AI061313, AA773289, AA364488, AW274195, AC005755, AC004499, AR060470, Z68756, U29953, AC005488, L78810, AC016830, AP000049, AP000311, AC006023, AC006057, AF172277, AC010209, U96409, AL031012, AC006515, AI031466, AL049697, AC006040, AC002477, AL031770, Z85986, AF064857, AC002367, AP000031, AL031133, AL049780, AC007055, AC006305, AP000358, AL034555, AC007386, AC004477, AC004168, AE000660, AL031311, Z82215, AL021069, AC006256, AL121825, AL035688, AC002349, AC006041, AC005104, Z98051, AC004973, AC002997, AF061325, AJ003147, AC004878, AC005034, AC018769, AC002316, AP000113, AP000045, M87914, AC007919, AC002378, AC004994, AC009247, AL033525, AC006312, AC005822, AC006487, AI132716, AC006160, AC008372, Z95703, AC000082, AL109984, AI080248, AC004622, AC005250, AC002492, L44140, AL049596, AL031965, AC007684, AC005740, AL109627, AC005722, U85197, AC004381, AC002531, AP000365, AL080317, Z97876, AC005914, AL031257, AC001538, AL049554, AC004653, AC010170, AC005046, AC006285, AL096817, AL050341, AF141976, AC007564, AP001053, AL117354, U02068, AC005678, AP000548, AC004675, AL035455, AC016025, AL022311, AC009233, AP000962, AC004383, Z83840, AL034343, AC004910, AF029308, AC005821, AC009181, AC010200, Z97054, Z93244, AC004743, AL121653, AL109628, AP000116, AC005529, AL034349, AC005827, AC006210, AC007671, AP000223, AL050350, AL035551, AC006430, D84394, AC005180, AF091512, AC006262, AL031602, AF088219, AL133244, AL049843, AC007687, AC002401, AP000432, AP000085, AL022302, Z68164, AC005932, AL031346, AC005668, AL031774, AC002565, AC005323, AC000120, AC005690, AL035681, Z97053, AC005156, AC006525, AI117694, AC004805,				
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HTWJA83	6315	780990	1 - 318	15 - 332	<p>F00717, D58893, AA129219, AI185580, AA548890, AL282793, AA843779, AA318189, F35649, AA501649, AI929746, AA514020, AI929738, AW162887, AA525508, AA984187, AI500453, AI049671, AI470431, AI524360, AI311684, AW401658, AA641122, AA586667, F17632, AA503119, AA468022, AI470437, AA714110, AA493110, H64265, AA581471, AW022897, AI634187, AI457313, F17142, AI610376, AI932600, AW084258, AW131249, AA527209, AI133164, AL045813, AI886008, AA668340, AI857836, AW080777, AW118304, AA846990, AI310780, AA314877, AI356440, AI344957, AA676971, AA321168, T07039, F25733, AA858372, T02965, AA745373, AW250905, AA149724, AI219169, N23896, W39141, AI720195, AW069227, AI216151, AA305154, AA613624, AW150561, AA136577, AA653240, AA558560, AW405054, AI806102, AI581193, AA297666, AI460009, R49657, AI086830, AI366464, AI817976, AW080440, AA455483, AI110595, AW130093, AA129563, AA577824, AW402817, AI669046, AW025074, AI223987, AA402129, AL134703, AW178018, AA574077, AW177870, AA101113, AA553363, AA707735, AA747305, AA580568, AI559564, AI859284, AA569183, AI681568, AI367473, AA228459, M78140, AA351753, AI431240, AA405453, AA908224, AA775173, AA180327, AA018823, AA489571, W26032, AL119921, AA179350, AL119158, T47084, AA972809, AC006953, AL121593, AC004552, M87921, AL033543, AL021391, AC004648, AL121652, AC004257, Z97205, AF152365, AE000658, Y07848, AP000504, AC000026, AL133233, AC002059, AC007040, AC006041, AL009183, AC008545, AP000010, AP000152, AC006037, Z98742, AL008633, AC004655, AC002331, AC004970, AC010722, AC004551, AC007785, AC008080, AL023879, AL021546, AF001552, AC005086, AL034548, AL024473, AC004962, AF135025, AC005568, AD000091, AC004517, AP000275, Z81364, AC005031, AP000105, AP000037, AC002530, AC007880, Z84466, AC004999, AC004520, AC020663, AL035070, AC002091, AL133448, AL021395, AR036572, U91328, L35485, AI121655, AC005486, AC004813, U91322, L09706, AP001137, AC005808, AP000502, AF019413, AC001231, AC004673, AC008273, AC003025, AF139813, AC004228, AR051479, AL031258, AC007707, AL033392, AC004834, AL033517, AL031295, AC004140, AC006211, AL137430,</p>

					D86979, AF175325, AL096763, AC005624, AC006274, AC002984, AC006578, AC007999, AC004149, AC008967, AF190465, AC003688, AP000505, AL021069, AC004079, AC010169, AC005215, Z99128, AL031864, AP000466, AL096712, AC004815, Z97056, AC004706, AL078639, AL035697, AL133245, AC005993, AC004832, AC005730, AC009946, U91318, AL031228, AL022165, AC006538, AF129756, AL021368, AC005632, AC007298, AC005274, AF053356, AC004526, AL031390, AL049828, AC006127, AF006501, D87024, AL049576, AL023802, AL049565, AC005102, AC004929, AP000952, AL021392, AC004468, AL121580, AL031587, AL133396, AC006512, AC002060, AC005899, U85195, AJ006996, AC007462, AL050350, AL034423, AC005399, AF064865, AF001549, AC005997, AC005342, AC005081, AC008124, A90825, AL033522, AL035495, AC007075, AC002306, AC005793, AC008975, AC000086, AC005512, AC005755, AC006077, AP000049, AP000193, AL020996, AJ243211, AC005049, Z93023, AL035588, AC007129, AC005924, Z95116, AC002468, AL034425, AC002426, AP001068, AP000353, AP000311, Z93016, AC004876, U80017, AL021528, AL035684, AC004765, AP000117, AC006023, AC002553, AC007879, AC003669, AL035427, AC005828, AC007050, AC005325, AL022721, AC004882, AC005089, AC004770, AC006241, AC006057, AC008040, AC005158, AC005529, AJ011930, AP000431, AF130343, AC007566, AF035396, AC000393, AL031447, AF196969, AC002070, AC004470, Z97352, AP000245, AC005476, AF091544, AF011889, AC007312, AL049843, D14548, AC006974, AC004186, AC004009, Z97196, AP000517, AC004584, and AL035443.
HTWJA95	6316	796259	1 - 278	15 - 292	AC007245.
HTWJC43	6317	715081	1 - 386	15 - 400	W52542, AA352300, AA492364, AA345395, AA523753, T40415, AA181184, AA664672, D53546, D53992, D54403, D54143, AA526619, D52804, AA180190, AA128647, AI301557, AA159647, AA603905, AW005462, AA528259, AW069480, AI309850, AA531360, AA533239, AW170190, AW188490, AW327933, AW327993, D54773, AA507186, AA847052, AI146888, AI081088, AW117656, AA327924, N99053, H88751, AI345372, AA532888, W32379, AA191222, AI560642, F27195, AI095409, AA804683, AI857391, AI676012, AA182619, N30675, AI300845, AI660588, R54410, AA081362, AI129527, AW023019, AA516100, AA528581, AA729056, AI205881, AA658829, AW328662, AW411459, AW276534, AA569578, AA484708, AA365665, AA809081, AI971289, AW245982, AA327606, D53168, AW238115, AW262461, AW238188, AW274800, AW238160, AW238174, AW438505, T59573, AI521361, AI658587, AA602702, AI199869, AA885968, AW084835, AW006070, AI266606, AW327994, AA176964, AW238047, AW262180, AA551487, AA167322, AW328642, AW328735, AW327769, and AC005291.
HTWJC85	6319	757125	1 - 321	15 - 335	
HTWJF59	6320	693116	1 - 348	15 - 362	AI141508.
HTWJF66	6321	576164	1 - 589	15 - 603	AC004534, and AC004889.
HTWJF95	6322	745182	1 - 431	15 - 445	AA525764, AW167154, AA507601, AI887235, AI815583, M62259, F24745, AI816537,

AI797998, AI627917, AA558366, AI421257, AI049630, AA279919, AI038304, AI243789, AI077941, AI049955, AA382181, AA343523, AI249688, AA127222, AA347203, AA084609, AA070614, N71033, AI915081, AA730530, AA502991, AI039257, AA557790, H05066, AI570067, AA218684, AW069769, AA084320, AI433131, AI249365, AI434477, AA648560, T47138, AI859280, AA470933, R95751, AA985202, AW337805, AA573062, AA230025, AW188742, AA527633, N39388, AI891043, AI524022, AA468505, AA593537, AA491767, AW239465, AW439224, AW176639, AA669054, AA196994, AI679413, AA468371, AA689351, AA502532, AI754567, AI569100, AW192599, AI564582, AI031759, AA661583, AI598003, AA847341, AA171400, AA055647, AI919048, AI431513, H84412, AA493464, AW408073, AI755214, H86221, AA578832, AA587826, AI733523, AI268465, C05999, AA714110, AI918661, AI567676, AA640305, AA740571, R81017, AA741403, AI452836, AA102737, AI754105, AI962030, AW131356, H68343, AW303052, AI884404, AA678845, AA297498, R24038, AA605243, AI336771, AA493245, AA228368, AW337454, AA935457, AA748071, W96277, H71678, AI802087, AI080307, N99564, AW338376, AW129188, AA837035, AA593828, AI754653, AW021399, AA807704, AW020094, H85383, AI821055, N25079, AA679523, AI282253, F35097, AA586667, AI589942, W45306, F04710, AI174827, T15873, AA128511, AI890297, AA809546, AI801563, AI065031, AA630854, R22966, AW117860, AA367672, AA668727, N63149, AI601229, AA229422, H57752, AI984168, R89560, R97294, AI732474, AA524617, AA524907, AA297776, AA524666, AI791427, AI340151, AI732635, AA595661, AA729755, AI732128, F02399, AA587835, AA452325, AI049701, AA523719, Z96182, AC005102, AL096791, AC004962, AC006088, AC005808, AC006211, I34294, AC005911, AL049869, AP000952, AC008044, AC006064, S42653, U89337, AC005516, AC004854, AC004230, AC007193, AP000065, Z93930, AC005288, AL031311, AC002301, AL049795, AP000032, D86995, AP000343, AC006571, U95742, AC004841, AC006539, AL049829, AL080243, AC008078, Z83844, AC005089, AC004832, AC007216, AF196971, AP000115, AL109952, AP001052, AL049569, AL135744, Z96074, AC006077, AP000103, AP000555, AL109984, AC005015, AC004916, AC002312, AL035659, AL034421, AF001549, AP000359, AC004033, AL023575, M17262, AF124523, AC006948, AC007308, AP000089, AC007546, AC007686, AC000353, AC005666, Z97054, AF134726, AC007226, AC004148, AC007436, AC004477, AC004929, AL031295, AC002470, AL023553, AC008014, AL033392, D87675, AC005484, AF196969, AC007688, AC009247, Z93023, AL132777, AL031296, U52111, AC002347, AL031848, Z95113, AC002477, AC010168, AP000047, AL031291, AL050307, AC006960, AF190465, AL031120, AL031281, AC003104, U91326, AC003042, AL139054, AP000305, AC005619, AC004999, AC002430, AC007384, AC007790, AP000113, AL109963, AL133246, AC005751, Z97056, AC005412, AP000252, AL020997, AC009516, Z82244, AC004797, AC005943, AC007371, AC006125, AC005291, AC006241, AP000212, AL035405, Z99716, AC004686, Y14768, AC007151, Z99943, AC006965, AC005940, L78833, AC004228,

HTWJH57	6323	812698	1 - 342	15 - 356	<p>AL035413, AL009051, AC003047, AP000031, AL035416, AF006752, AC004019, AC003025, AC004491, AP000134, AC005755, U80017, AC007842, AC007676, AC002432, AL031666, AC003109, AP000501, AL021546, AC005231, AP000347, Z83826, AC002310, AC005632, U95090, AL035249, AL034423, AF111168, AC005625, AC003663, AC006312, AC007382, AC006146, AC003688, AP000688, AL050318, AL049636, AL024508, AL121603, AF001548, AC006101, AP000704, AC007314, AC005620, Z46936, AC002492, AP000141, AL049631, AL121754, AF002223, AL049643, AC005180, AC005529, AC007227, AC006538, AC005067, AC005072, AL022721, AC005224, AP000687, AC005746, AP000502, AF111167, Z82203, AC007068, AL133445, AC000052, AC007421, AC006006, AL031255, AC005696, AC004655, AC005081, AC002425, AL133245, AC004770, Z83845, AL135960, AJ131016, AC002349, AL122020, AL049760, Z85994, AC007637, AC004966, AC007182, AC005037, AL096701, AF031078, AC005206, AC002997, AP001054, AP000505, AP000514, AC005225, AC009501, AC022517, AL133371, AL034429, AL035681, AF030876, AC005229, AC007388, AC002996, AL022311, AC007385, AC006271, AC008115, AC005480, AB022785, AC006455, and AP000023.</p> <p>AI061313, AA551798, AW022796, AA743968, T61477, AI636734, AA604831, AI271762, AI054418, AA598605, AI538236, AA573000, N51140, H57752, AW002330, AA857812, R33091, AA228979, AA229823, F17537, AA402609, AW268322, AA828860, AW069227, AL041375, AI472736, AW341955, AA584765, AA077619, AI889579, AA626829, AI679759, AI886736, AI052776, AI188390, AI249365, AI082353, AW265279, AW265276, AI340700, AA084148, AL042735, AW339422, AW440568, AI354333, AI251944, AA342238, AA516025, R99533, F35684, AA515921, AI445373, AA430652, AI250552, AI251034, AI254770, AI284543, AI264579, AA678932, AI054090, AI133514, AI049630, AI634187, AI246061, AW081610, AW271917, AW265688, AA568204, AA570740, AA483606, AA302812, AI457313, AA480486, AA558404, AA469230, AA371410, AA302978, F17700, AA502825, T03928, F30251, AL120141, AA57982, AI189682, D51877, AW265359, AA715983, AA135988, AW237905, AI217131, AA715962, AA599080, AW242031, AI889995, AA483583, AI114733, AI133552, T94072, AI251284, AI251203, AW273201, AW273146, AI223626, AI249853, AI251241, AW340905, AA468494, AA581525, AI046519, AI049534, AW301483, Z98884, AL022316, AC004941, AL035086, AL009181, AC005046, AC005996, AL121603, AC005060, AL031120, AC004253, AC000353, AC005102, AP000502, AL031733, AC004895, X87344, AC005180, AL031290, Y10196, AL080243, AC005089, AC005828, AC005031, AF196969, AF001549, AC004922, U95740, U91326, AC002300, AC004757, AC002316, AC005264, AC002312, AC007546, AC005685, AC004859, AC005962, AL049569, AC002038, AL009031, AC002326, AC005730, Z75888, AC006960, AC020663, AL049776, AC004534, AC004769, AF064861, AC006211, AC001228, AC002550, AF017104, AC005544, AC006241, AC003029, AL033376, AP000279, AC006141, Z77852, AP000691, AC003684, AC004383, AC004887, AP000106, AP000038,</p>
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HTWJL91	6324	789487	1 - 533	15 - 547	N91175, AA608955, and AI918281.
HTWJM05	6325	850055	1 - 403	15 - 417	AA649642, AA652057, AA441788, AI653905, F25867, F16274, AW088058, AI352078, AA601892, AA493170, AA095511, AA947370, AA553465, AA371567, AW265253, AW236342, AA649705, AA125788, AI110770, AW341900, AI076616, AA195545, AA364429, AI284640, AI281881, H78195, AA578391, AW089322, AA347927, AA347930, AA845813, W95841, AA355281, AA847741, AA917683, AW406447, AA808928, F34510, AI281903, R13151, AI282336, AA632837, AA831375, AI434695, AA381858, AA229785, AA325699, AI246796, W79504, AI709365, AA713891, AA352803, AA634238, AA551552, AA179792, AA551201, AP000555, Y18000, AC005529, AL035458, AF017257, AC004638, AC011592, AF227510, AC005694, AP000141, AC004685, AC005901, AL121653, AC005015, AL035415, AC006480, AL022238, AC005209, AC003101, AC005940, AC010170, AC004854, AC002350, AC002300, AF111168, AL096701, AC008039, U95740, AC006040, AC006468, AC005081, AF130247, AC005899, AF130342, AC008055, Z82189, AC005295, AL049834, AL034402, D87675, AP000459, AL121652, AJ251973, AC004167, AL049835, AL109654, AL031666, AC008079,

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HTWJO45	6326	717592	1 - 179	15 - 193	AA904337.
HTWJQ19	6327	668466	1 - 329	15 - 343	AC005730.
HTWJY82	6328	698335	1 - 116	15 - 130	AC004815.
HTWKG30	6329	691882	1 - 125	15 - 139	
HTWKN53	6330	728014	1 - 256	15 - 270	
HTWKT61	6331	709451	1 - 104	15 - 118	AW162799, AW163173, AW163379, and AI003011.
HTWKX27	6332	574092	1 - 423	15 - 437	T95930, F16198, AW023111, AI870453, AA225406, AW272294, AI858889, AI635028, AA224593, AI567391, AA493947, AI923451, AI587467, AI192440, AI628859, AI860751, AA297011, AI572680, AW168103, AA077619, AI923458, AL120004, AI272649, AA938390, AA384890, AA558404, AA225938, AA722336, AA551056, AI439393, AA425924, AW105737, AA526643, AA320105, AA663074, AA612727, AA470578, N25564, AA904211, W81372, AA650447, AI358712, N36994, AI609972, AA487300, AI798407, AI421257, AA309634, AI792439, N95156, AA570441, F17537, AW162227, AW157731, H58891, C06142, AA598736, AC005037, AC005920, AL008635, AL035685, AC003687, Z98200, AL121652, AC006515, AC007676, AL035071, AC005531, AC007707, AL031311, AC006060, Z84469, AF128525, AL096763, Z86090, AL020997, AC005318, U91321, AC007993, U96629, AL049776, AC007688, AC007226, AL135783, AL031665, AC006020, AL109758, AC005488, AC006449, AC007225,

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HTWKZ04	6333	614980	1 - 430	15 - 444	
HTWKZ17	6334	529749	1 - 351	15 - 365	
HTWLD37	6335	841951	1 - 491	15 - 505	
HTWLG13	6336	656772	1 - 325	15 - 339	AL045209, AL138331, AL080135, and AC004810.
HTWLG76	6337	795694	1 - 527	15 - 541	AI126506, AI200037, AW024969, AW020616, AW450603, AI695490, N26904, AI217597, AI829099, AA568193, AA605122, AA743134, AI160533, AI128843, N25625, N24885, AI312534, AI802647, AA648514, AA729493, AI219599, AA806507, H86995, AA729125, AA568681, N36303, AI032141, N34223, AA768761, N35103, N26781, R73137, AW298649, N25653, AA543074, W52651, AW453038, AI674252, AW452862, AA988539, AA296449, N28403, AW074182, AI805445, AW236299, AI361669, AI299683, AI452444, AI039557, AI141901, R26304, N72137, AI984739, N34254, AA358828, AA653691, N20053, N39790, H86994, and W00385.

HTXAK52	6338	869460	1 - 251	15 - 265	
HTXAK78	6339	530137	1 - 335	15 - 349	
HTXAO23	6340	676386	1 - 119	15 - 133	
HTXBF75	6341	963029	1 - 312	15 - 326	AC008039.
HTXBH24	6342	418592	1 - 231	15 - 245	
HTXBJ36	6343	529759	1 - 219	15 - 233	
HTXBJ92	6344	706472	1 - 492	15 - 506	AA694368, AI076400, AI911488, and AL135744.
HTXBK75	6345	869401	1 - 159	15 - 173	AC004472.
HTXBN83	6346	781443	1 - 236	15 - 250	N28694, and AL049779.
HTXBO11	6347	967750	1 - 387	15 - 401	AC012627.
HTXBO21	6348	869461	1 - 320	15 - 334	Z77852.
HTXBO51	6349	970855	1 - 726	15 - 740	AA954908, AA234392, AA554743, AA232663, AA641221, and AW029502.
HTXBX49	6350	529662	1 - 225	15 - 239	
HTXBX77	6351	529661	1 - 341	15 - 355	
HTXCB32	6352	529615	1 - 431	15 - 445	AA134057, W60233, X81403, AF008203, and U96109.
HTXCL28	6353	952022	1 - 165	15 - 179	AC005730.
HTXCU76	6354	765655	1 - 576	15 - 590	AA213831, AC002472, and AC007664.
HTXCW16	6355	522365	1 - 253	15 - 267	AL021393.
HTXCW27	6356	491257	1 - 564	15 - 578	
HTXCX05	6357	932476	1 - 289	15 - 303	
HTXCX16	6358	537413	1 - 219	15 - 233	
HTXCX84	6359	924996	1 - 229	15 - 243	
HTXCZ16	6360	537485	1 - 439	15 - 453	N92159.
HTXDG37	6361	968886	1 - 552	15 - 566	AI693917, AW295593, AA831020, AW302412, AA976179, AA765705, AA731457, AA350911, AA810783, AA732410, AA928152, AW304453, AA906028, and AI695679.
HTXDI51	6362	537474	1 - 262	15 - 276	
HTXDO50	6363	537487	1 - 426	15 - 440	
HTXDQ25	6364	869369	1 - 365	15 - 379	
HTXDS80	6365	869435	1 - 70	15 - 84	
HTXDW14	6366	966588	1 - 1237	15 - 1251	AI829096, AA642981, AW152343, AW251072, AI871224, AW071985, AI978921, AI623713, AI762266, AI677795, AW117876, AI494363, AW009386, AI672747, AA458937, AA593002, AI660303, T57200, AA236101, AA653968, AA889703, AI633328, AI566555, AI568693, W49620, AI129215, AA725435, AW072937, AI424429, AI686112, AI659610, W48794, AA903402, AW407304, AA676879, AA027201, T55953, AI220314, AI538498, AA084808, AW009784, AA235819, H62064, AW083416, AW087223, AW068082, AA121077, AA084809, H45963, AI650521, AA027200, AA459151, H61158, AA399478, AA293409, AA454941, and AI918169.

HTXDX61	6367	784768	1 - 411	15 - 425	AW403861, AW408474, and AL023755.
HTXDX82	6368	931113	1 - 552	15 - 566	AC004895, AL096791, AC006023, AL049758, AC005837, AL031651, and AC004834.
HTXDZ01	6369	921486	1 - 301	15 - 315	
HTXEA41	6370	974530	1 - 408	15 - 422	T78301, and AL022328.
HTXEA62	6371	812833	1 - 372	15 - 386	AW405413, AA353813, and AA381548.
HTXEC53	6372	529755	1 - 500	15 - 514	AA176859.
HTXEE70	6373	537405	1 - 272	15 - 286	
HTXEM54	6374	764221	1 - 455	15 - 469	AI936768, AI356580, AI143875, AI445933, AI623391, AI091508, AI016436, AA843275, AI634953, AI097033, AI343882, AW383962, H59109, AI923443, AA430386, AI127186, AI343898, AI075102, N92435, AI950068, AW009389, H45798, AW162266, AA749379, AA421159, W52668, AA557505, AA397847, C05210, AA975241, AI420624, AA746044, N94429, N71146, N41774, AA680312, H72570, R81293, T81890, AI074236, AA405255, H65279, AA514243, AA448899, AA838218, AI815068, AW152092, AI160804, AA935040, AA284883, AI816986, AI380091, AA041377, AI024256, AA931271, AI278531, AI074208, AA287368, AA653509, AA873636, AA477128, AI367990, R89302, AI808213, AA825323, AA126677, AA464570, F35772, AI817348, AI744978, AA832261, AA612964, AA708347, AA659795, AI346987, AI720049, AW044578, AW172820, AA588835, AI635843, AA081185, AA477374, AI929800, AW071157, T50155, AA039332, F25719, AW003379, W74217, AI934851, AA436429, AA427865, AA806434, N32773, AA287506, AA429288, AA081295, W15647, AA085871, AA568565, AA129242, AA476577, AA489518, AI200308, AI364059, AA284614, R53178, AA954681, AW190970, AI241959, W30776, AA652668, AW328731, R82993, T83974, AA868075, AA385487, AA592907, AA464673, W52667, AA832337, AA129279, C05561, AW291918, AI459882, AA761016, AW301144, AA483524, AA678902, AI016411, W42678, AI383729, AA489517, T58548, AA368569, N70036, R89303, AA411549, AA041417, AI014648, AI279385, AW050747, R37644, R81187, R53087, AA039417, AW448949, N80829, H78214, H72970, AA127289, AI208609, AA386232, W44978, AI420322, W79938, AW089501, N41749, R24418, AI471390, AI219019, C01008, T51003, AI379130, AA291664, AJ011916, and AC003688.
HTXEP20	6375	537483	1 - 227	15 - 241	
HTXEP49	6376	722181	1 - 387	15 - 401	AA167183, AA481795, and AC005837.
HTXEP76	6377	527697	1 - 352	15 - 366	
HTXEQ05	6378	932471	1 - 223	15 - 237	
HTXET61	6379	537471	1 - 233	15 - 247	
HTXET67	6380	783784	1 - 275	15 - 289	
HTXET75	6381	664468	1 - 222	15 - 236	AC005630, and AC006328.
HTXEW14	6382	932437	1 - 206	15 - 220	

HTXFB03	6383	924995	1 - 304	15 - 318	
HTXFB78	6384	869408	1 - 272	15 - 286	
HTXFB95	6385	537399	1 - 320	15 - 334	
HTXFC07	6386	918644	1 - 594	15 - 608	AI241496.
HTXFD75	6387	537401	1 - 254	15 - 268	
HTXFE47	6388	790855	1 - 452	15 - 466	
HTXFF04	6389	615593	1 - 641	15 - 655	R99264.
HTXFF66	6390	973429	1 - 723	15 - 737	
HTXFF91	6391	780083	1 - 347	15 - 361	
HTXFI58	6392	557838	1 - 314	15 - 328	AW051648, AC002349, AC005040, AC006975, AC004131, AB020874, AC005243, AL109941, AL031393, AC006536, AC006062, AC002460, AF156545, AC006516, and AP000080.
HTXFK45	6393	523385	1 - 387	15 - 401	
HTXFN69	6394	869397	1 - 463	15 - 477	
HTXFQ65	6395	926534	1 - 569	15 - 583	
HTXFS95	6396	796025	1 - 328	15 - 342	AA084950, AL036549, T03401, AA558426, AA526343, AA009855, AA192293, AL048376, H38817, AI469384, T07225, AA303598, AA226770, AA642809, AA640310, AA745373, W02437, R48980, AW087226, AC020663, AB026906, U91320, AC005197, AP000011, Z98052, AC002425, AC007731, AC005500, AP000510, AC008115, AP000268, AP000102, AP000033, AC005535, AB023048, AC007226, Z93020, AP000563, AL022721, AC002310, AC005971, Z99716, M33132, AC006001, AC004765, AL033392, AP000133, AP000211, L44140, AC005837, AP000466, AF050154, AL049780, AC006544, AL050321, AL080243, AC007055, AF111167, AC005399, AL009181, AL021939, AC003108, Z93017, AL031602, AC002350, Z98750, AL096703, AC002546, AC005944, Z93241, AC002544, AC006948, AD000092, AC005280, AJ003147, AC007276, AC003085, AC005763, AC006571, AC005932, AC005632, AC006121, AC002477, AC004686, Z83826, AL034451, AC003109, AC005519, AC005071, Z98200, AL035684, AL031311, AP000212, AP000134, AP000030, AF030876, AC005360, AL021546, AC007676, AC005529, AL023575, AL133371, AC006023, AP000345, AC006125, Z69707, AC009247, AL133445, AP000088, AF031075, AC002094, AC003983, AC005940, AC006539, X55448, AL109827, AC004910, U91326, AC007462, AC002395, AL031662, AC002400, AC007057, AB020861, AC005049, AL035587, AL023880, Z98941, AC005291, AC005262, AC016831, AL117694, U63721, AP000555, M15366, AL121748, AC004583, AC007686, AC007114, AC005764, AC005902, AC005225, AC009516, AC003950, AC005531, U78027, AC005527, AL021977, AL021918, Z69042, AC008041, AL050318, AL022323, AL035464, AC005015, AP000553, AC003962, AL035422, AC005772, AL031848, AC003043, AC015853, AC003025, AC004596, AL009179, AL096791, AC007919, U91318, AC007283, AP000269, AC005033, Z99943, AC008040, AC006449, AC003072, U91323, Z97181, AC004659, AC004024, AP000032,

HTXFT03	6397	924952	1 - 87	15 - 101	AP000103, AC007229, and AC006509.
HTXFT60	6398	923937	1 - 343	15 - 357	U61375.
HTXFFV22	6399	537491	1 - 331	15 - 345	AC005057, and AF045555.
HTXGB20	6400	933878	1 - 86	15 - 100	AL034375.
HTXGB65	6401	577711	1 - 650	15 - 664	AA084084.
HTXGD30	6402	529724	1 - 173	15 - 187	
HTXGL73	6403	529745	1 - 229	15 - 243	
HTXGN76	6404	527016	1 - 487	15 - 501	AI148063, AA252523, AA297161, F12840, T74733, AI765490, and AL050283.
HTXGO74	6405	869391	1 - 70	15 - 84	
HTXGQ37	6406	575461	1 - 308	15 - 322	
HTXHA16	6407	661818	1 - 421	15 - 435	AA362857, R82020, R82878, and AA229827.
HTXHD24	6408	727469	1 - 266	15 - 280	N40823, AA366086, W42954, R70423, AA252002, AA306794, AA524713, AW245923, AA210862, AA093155, AA281810, R52220, N35269, AA258914, W57948, and AW328480.
HTXJA66	6409	698461	1 - 391	15 - 405	Z99716.
HTXJB15	6410	660059	1 - 301	15 - 315	
HTXJB35	6411	707768	1 - 342	15 - 356	T48959.
HTXJC65	6412	666565	1 - 310	15 - 324	AI364902, and AA665393.
HTXJE76	6413	745813	1 - 305	15 - 319	AL133243.
HTXJF30	6414	692607	1 - 442	15 - 456	AA834596.
HTXJG06	6415	933230	1 - 516	15 - 530	Z84483, AL022151, and AC004456.
HTXJG19	6416	974010	1 - 355	15 - 369	
HTXJG23	6417	675315	1 - 521	15 - 535	
HTXJG53	6418	752160	1 - 1038	15 - 1052	AL134541, H41036, R33553, H42427, AW374362, AW374429, AW374421, AW374386, AW377436, AI743773, AW189062, AI743778, and D80002.
HTXJH73	6419	582143	1 - 357	15 - 371	T03401, AW340825, AI679753, and AI446158.
HTXJI68	6420	912611	1 - 541	15 - 555	AI929622, AW163374, N26287, AI698163, AI808675, AI499009, AW085191, AW025963, AI755143, AA781965, AI937942, AA778160, AI928943, AW157001, W84345, AW368475, AW275950, R99189, AW275930, AA906459, AI697616, AA905632, AI142546, AA703929, AA226492, AW157319, AA018804, AA084374, AA488608, AI879125, R99188, H80954, W84318, AA088835, H09853, T57108, AA221003, N39466, T11253, AW369153, AI738969, AW452770, AA045453, AA214461, AA149728, N36179, H80858, AL045542, AI470608, AA149794, N44167, AW069420, AA377776, AW237362, R78054, F00825, AA310214, AF112206, AF152463, AF203689, and M83680.
HTXJ55	6421	959169	1 - 377	15 - 391	
HTXJK23	6422	675782	1 - 424	15 - 438	

HTXJL01	6423	916254	1 - 732	15 - 746	AA411753.
HTXJL02	6424	919691	1 - 469	15 - 483	AA436940, AI884861, W00387, AA488508, T56025, F35684, AA502125, AA857812, AA513219, AL031287, AL034562, AL031133, AL031729, AC007540, AB007960, AC005681, AF134726, AC005480, AL035072, AL132777, AC005740, Y10196, and Z82189.
HTXJM73	6425	783572	1 - 387	15 - 401	AC005562.
HTXJN04	6426	566887	1 - 1574	15 - 1588	AI278972, AI355007, AA613761, AW089589, AI476049, AA644090, AI254779, AA084609, AA833896, AA833875, AW302017, AA613624, AW007662, AI732720, AI061313, AA077737, AL047429, AW150226, AI249473, AI734119, T57767, AA077637, AW169038, AI049534, AI891070, AA487209, AL096712, AC005519, AC004000, AC005620, AF001549, AC006121, AJ246003, AL122020, AC005377, AC004816, AC006064, AL080243, AC004797, AL133245, AC005231, Z85986, AC005225, AC004821, AC007226, AL031311, Z93241, AC005736, AL035420, AC006958, AC002303, U85195, AC007917, AP000503, AL031284, AC002378, AC003982, AL121658, AF111168, AF196779, AC005859, AE000658, AC005755, AC007376, AC005837, AL096791, AL020993, AL139054, AF053356, AC006480, AC004596, AC005921, AL020995, AC006312, AC003101, AC005863, AC006530, AC007999, AL035685, Z84469, AC005829, AC005261, Z86090, Z98036, AP000133, AP000211, AC005004, AC000026, AC004491, AC005300, AL117330, AP000553, AL050307, AC005057, U62293, AC002059, Z99716, AC005839, AP000555, AL031281, AL117337, Z94801, AF200465, AC007216, AC005102, AL035683, AC002369, AL035086, AC005488, AL109627, AC016025, AC006388, AC007845, AC007993, AC005399, AL031588, AC004799, AC008151, AL035659, Z93017, AC005206, AC004686, U95742, AC005514, AL031005, AC004876, Z95152, AC007686, AC004217, AC002350, AF196971, AC005971, U93305, AC006211, AC006124, AF111167, AC004106, AC004841, AC004659, AC005015, AF038458, AL117258, AC004584, Z97876, AF176815, AC002996, AC002470, AC004991, AC006071, AC006050, Z98051, AL022237, AL022320, AF205588, AL031186, AL049839, AC005529, AC004883, U62317, AC005037, AC007537, AC005632, AC007774, AL024498, AC000052, AC005667, AC006581, AC006080, AC005527, AC004084, AC006571, AC002425, AC006013, AC005920, AP000030, Z15025, AC004099, AL031774, AC005280, AC005670, Z84480, AF134726, AL109984, AC002477, AC004382, AC005081, U91321, U89335, AC002300, AB023049, AC005291, AC004598, AL022238, AC004805, AC004895, U96629, AP000694, Z85987, AF010238, AC005089, AL109801, Z97056, AP000201, AL035400, AP000513, AC004408, AC004851, AL121655, Z84466, AC002551, AC002312, AC005391, AL049757, AL132712, AL035079, AC004386, AC005379, AP001052, Z98941, AC012384, AC006515, AL121603, AF109907, AL135744, AC005031, AL050321, AF064861, AL031685, AL022315, AC009247, AC007030, AL031680, AC005778, AC002314, AC007536, AC004520, AL021154, AC005005, AC005821, AC007371, AC005581, AP000097, AL031683, AL031602, AC000353, AF047825, AC009516, AC006930, AP000117, AL049795, AL023553, AF190465, AL133448, AP000557, AL031651, AP000299,

						AL133445, AC008040, AL096701, AC002543, AL049758, AC006544, AC002544, AC004913, AC007055, AL031447, and AC004231.
HTXJN68	6427	752940	1 - 362	15 - 376		AW401809.
HTXJO34	6428	703973	1 - 216	15 - 230		
HTXJO61	6429	663153	1 - 535	15 - 549		U73636.
HTXJO85	6430	869123	1 - 575	15 - 589		AA634244.
HTXJP28	6431	974315	1 - 601	15 - 615		AC002303.
HTXJQ73	6432	719077	1 - 539	15 - 553		
HTXJR67	6433	739586	1 - 168	15 - 182		
HTXJS64	6434	746481	1 - 589	15 - 603		
HTXJV49	6435	867083	1 - 852	15 - 866		AW005663, AW071763, AI589576, AI421189, AI073924, AI421482, AI417338, AI885651, AW129633, AW206726, AI374763, AI253156, AI138654, AI198796, AI278638, AI865555, AI201794, AW245078, AI675781, AI078333, AI283026, AA550952, AW005870, AW001162, AA782579, AI040632, H09745, AA223086, AW246209, AA931459, W73383, AI124006, D60111, AA602382, AI183736, AA256089, T79631, AI269764, W73444, AI284851, AI784306, AA911501, AW169802, AA865002, N92173, H09833, C14754, AA206562, AA830231, AI128560, T79716, AA137269, AW169019, and AC007637.
HTXJW56	6436	859854	1 - 466	15 - 480		
HTXJY51	6437	872233	1 - 259	15 - 273		AL031005.
HTXKB42	6438	841986	1 - 348	15 - 362		AI219169, F24728, AA714011, AI460009, AA484164, AA583394, AA584125, AA833896, AA608645, AA833875, AA084609, R60935, AI273847, AA228459, AI561210, M87890, AC004859, AP000251, AL031311, AP000212, AP000030, AP000134, AC005228, AC004383, S42652, Y18000, AL022313, AL022322, AC007216, AP000501, Z82203, AL035587, AC005089, AC005746, AC004150, AC005037, AL035683, AI020997, AC005694, AI021407, AC005529, AC002544, AC005207, AC005088, U52112, AL031295, AC004801, AC005081, AC005971, Z85996, AC004662, AL133163, AC009044, AC004817, AC005320, AL049569, AL020995, AC005015, AC006057, AC005913, AC004832, AC005837, AC004477, AC000029, AC002059, AL049836, AC004929, Z97353, AC005476, AC006449, AF030453, AL096791, AC008044, AL035530, AL080243, AL049776, AC002310, AC005914, AL049636, AC002364, AC004139, AL008726, AL049779, AC004263, AL031680, AC009721, Y12855, AL133245, AC006050, AC009516, AC005257, AC002425, AC007129, AC000120, Z93928, AC004659, AC004883, AC005484, AF038458, AL121653, AC004834, AL135744, Z98946, AC002543, AC007676, Z97196, AC005346, AL024507, AC005225, AC005190, AL034402, AL133353, AC006254, AC005324, AC007298, AL096701, Z86090, AL034420, AL031984, AL109984, AC006539, AP000299, AC002994, I59642, AC007435, AC004216, AC002519, AF196969, AC010582, AC005291, AC006441, AC016025, AC004000, AL121603, AC005696, Z95116, U78027, U52111, AC004805, AC007198, AC005668, AF031078, AC002076, AC005899, AC005839, AC004598,

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HTXKC23	6439	529756	1 - 229	15 - 243	
HTXKD62	6440	743435	1 - 272	15 - 286	AC004242.
HTXKH47	6441	720186	1 - 342	15 - 356	AL031774.
HTXKI93	6442	796245	1 - 251	15 - 265	W04224, AA134651, AL036175, AW249082, AW410595, AI929697, AW162954, AW161591, W26888, AA339543, W00383, AA219343, and F12127.
HTXKJ55	6443	671285	1 - 503	15 - 517	AA531436.
HTXKJ58	6444	574788	1 - 570	15 - 584	AB002344.
HTXKJ89	6445	767234	1 - 373	15 - 387	
HTXKJ95	6446	795788	1 - 338	15 - 352	H83011, AA973913, AI089968, AI088759, AW026427, AW071109, AA625565, AA334666, AL110391, AA984920, H81181, R09127, R13548, AI090576, AA528641, R96693, AA782301, AW188869, AI187148, AW438662, AI570019, AW438850, T86740, N92157, AA991990, T98482, AA714930, AW075881, AL118625, AA302690, AL038963, AA489860, AA833828, AW022934, AW021161, AA491438, AA654212, AL134009, AA350595, AL134586, H90688, AI336398, AA501781, T08205, AC007182, AF031076, AC004685, AL049795, AP000512, AL031774, AC004883, AF111167, AF031078, AL031905, AF030876, AL022316, AC000085, AC003109, AC006023, AL117258, AC005200, AL078596, AL008719, AL020997, AL031728, AF111168, AC005553, AL049538, L47334, AC005081, AC003982, AL035079, AC004832, Z75887, AC004987, AC007666, AC005803, AC006273, L44140, AL031283, AL078463, AC005067, AC007955, AL049832, AC004686, AC007425, AL109758, AC005102, AC002994, AC005071, AC005212, AC006241, AL031286, AL031729, AC002511, AC004216, AF111169, AL117354, AC004491, AC005288, AC004777, AF053356, Z94056, AC004382, AL035410, AC004522, AC005187, AC005409, AL121748, AC008372, AC005527, AC006509, AC016830, AC005332, AC005015, AL022238, AJ003147, AL022336, AC004662, AL031230, AC002375, AC000079, AC002551, AP000210, AP000132, AC006057, AC000059, Z93930, AC005529, AC007437, AL133382, AC005520, AC004983, Z97989, AP000249, AC000052, AC005944, AL109627, AP000336, AL079342, AL034419, AC003026, AC002287, AC004990, L78744, AL031673, AC002550, AC005585, AC005899, AB023050, AL096801, AC003665, and AL050348.
HTXKK62	6447	751050	1 - 423	15 - 437	AW339481, C04332, AA383551, and AC006449.
HTXKM25	6448	664886	1 - 335	15 - 349	AL119878.
HTXKM84	6449	782951	1 - 375	15 - 389	AL117354.

HTXKN90	6450	787551	1 - 316	15 - 330	
HTXKP42	6451	713631	1 - 646	15 - 660	H10896, R61720, H23341, and H29365.
HTXKQ25	6452	934801	1 - 574	15 - 588	H01126, and AB018275.
HTXKQ55	6453	947789	1 - 353	15 - 367	AW299519, and U80034.
HTXKS02	6454	919676	1 - 279	15 - 293	AC002096, AC007774, AL008718, AC005832, AP000093, AP000237, and AC004933.
HTXKU69	6455	754404	1 - 479	15 - 493	W47063, A1025911, AA401720, AA292887, and AL031295.
HTXKV16	6456	869348	1 - 490	15 - 504	Z98750.
HTXKV38	6457	918567	1 - 755	15 - 769	
HTXKZ89	6458	786409	1 - 291	15 - 305	
HTXLA63	6459	917316	1 - 422	15 - 436	Z99128.
HTXLD06	6460	934555	1 - 936	15 - 950	D80391, D59502, D59787, D59859, D58283, D59619, C14389, D80210, D80164, D80240, D80043, D59889, D80022, C14331, D59275, D80219, D51423, D80166, D80195, D80253, D51799, AA305409, D80227, D59467, D81030, D80212, D80196, D80188, D59927, D57483, D80024, D80038, D80269, C15076, D80193, D80366, D50979, D59610, D50995, C14429, D80378, D80045, D80241, D51060, C14014, T03269, D51022, AW178893, C75259, AW179328, AW177440, AA305578, AW378532, D80134, AW178775, D81026, D80251, AA514188, D51250, D80248, AW178762, D80522, AW369651, AA514186, AW360811, F13647, AW352158, D80168, D80133, D52291, D51079, AW177501, A910186, AW177511, D58253, AW375405, D80268, C14227, C14298, D81111, C05695, AW352117, A1905856, AW366296, AW176467, AW377671, AW360844, AW360817, AW375406, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, C14407, D80132, D80064, C06015, AW177505, AW352170, D80247, AW179020, D80302, AW352171, D80439, AW377676, AW178906, AW177731, AW178907, AW179019, AW179024, Z21582, AW179018, AW360841, AW178909, D59373, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW352174, AW179012, D51103, AW378525, AW360834, D51097, AW179004, AA285331, T11417, AW178914, AW378543, C14077, D80157, AW177722, AW367967, AW177728, A1557751, D59503, AW179009, D51759, AW178774, AW178911, AW352163, AW178983, D58246, AW352120, AW178781, T48593, D59653, AW177723, D58101, D80014, D45260, AW177508, AW378533, D59627, D80258, A1535850, C03092, C14975, H67866, AW367950, H67854, AA809122, AW177497, AW178986, A1525923, D51213, A1557774, D51221, C14344, AW177734, T03116, A1525917, D59317, C14973, D60010, D45273, D59551, D59474, A1525920, AA514184, A1535686, D51231, C14046, D50981, C14957, T02974, D60214, A1525227, A1525235, AW378539, A1525925, C16955, T03048, A1525242, Z33452, A1525912, AW378542, C05763, A1525215, A1525222, H67858, A1535961, AW360835, F13796, A1525237, AL035588, A62300, A84916, A62298, A132110, AR018138, X67155, Y17188, D26022, AF058696, A25909, AB028859, A67220, D89785, A78862, D34614, YR008278, D88547, I82448, X82626, AR025207, Y12724, A82595, A94995, AR060385, AB002449, AR008443, AB012117, X68127, I50126,

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HTXLD68	6461	752484	1 - 356	15 - 370	D51799, D59502, D80195, C14389, D80164, C15076, D80038, D59467, D59275, D80227, D81026, D80022, D58283, D80166, D80193, D59859, D59619, D80210, D80391, D80240, C14331, D59787, D51423, D81030, D80253, D80043, AW177440, AA305578, D80269, D80212, AW360811, D80196, D80188, D50979, D80219, AA514188, D80045, D59927, D57483, AA305409, D59610, D80378, D80366, D51022, D59889, D50995, D80024, T03269, D80248, AW375405, AW179328, AW178993, D80241, AA514186, C14429, D80522, D51060, D80251, C14014, D80133, AW366296, AW378532, AW377671, AW360844, AW375406, AW360817, AW378534, AW179332, AW377672, AW179023, AW178905, AW177501, AW177511, AW377676, AW178762, D80302, AW352170, AW352174, D51250, C75259, AW352171, AW177731, AW178775, AW178907, AW179019, AW177505, AW179024, D80268, D80132, AW352158, C05695, AW179020, AW360841, AW178909, AW177456, AW179329, D80134, A910186, AW176467, AW178980, AW177733, AW378528, AW178906, AW178908, AW178754, AW179018, D58253, D80439, AW352117, D80247, D59695, AW367967, AW179004, AW179012, AW178914, AW378525, C06015, D52291, AW177728, AW177722, F13647, D80064, AW179009, D80949, AW178774, AW178911, AW378543, AW352163, D51103, D80168, T11417, D59503, C14227, A1905856, AW178983, D81111, D80157, D58246, T48593, AW178781, AW360834, C14298, C14407, D51759, AW378540, C14077, AW177723, AW352120, D59627, AW177508, AW378533, D80258, D51097, Z21582, D58101, AW367950, AA285331, AW177497, C14975, D45260, D59317, AW178986, AW177734, H67866, A1525923, H67854, T03116, C03092, AA809122, D80014, A1557751, D51213, D45273, A1535686, D59551, A1525917, C14973, A1525920, C14344, D51221, D59474, D60010, D60214, AA514184, AW378542, A1525227, T03048, AW378539, C14046, A1525928, A1557774, A1525235, A1525925, A1525242, AW360855, T02868, A1525215, D59976, A1525912, A1535850, C16955, C05763, Z33452, T02974, A1525237, H67858, AC004466, A84916, A1132110, A62300, A62298, AB028859, AR018138, AR008278, AF058696, D26022, A25909, Y17188, Y12724, A67220, D89785, A78862, D34614, X67155, A82595, D88547, AR060385, A94995, X82626, AB002449, AR008443, I82448, AR016808, I50126, I50132, I50128, I50133, AR025207, AR016514, AR060138, A45456, A26615, AR052274, AR066488, AR066490, A43192, A43190, AR038669, I18367, Y09669, AR066487, A30438, AB012117, I14842, D50010, Y17187, A63261, X68127, A70867, AR054175, AR008408, AR062872, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, AR008277, AR008281, A64136, A68321, X93549, AR016691, AR016690,

HTXLE37	6462	790392	1 - 293	15 - 307	U46128, D13509, AR060133, I79511, AR032065, U79457, AF123263, AJ000347, and AR008382.
HTXLE56	6463	861983	1 - 603	15 - 617	AA593263.
HTXLE75	6464	766798	1 - 657	15 - 671	AC002073.
HTXLE79	6465	774125	1 - 418	15 - 432	AI949292.
					AA321018, AI749306, AA078391, AI934548, AA317973, AA321148, AI890971, AI798136, AI032984, AI473090, AA938132, AA630245, AI751519, AA577719, AA345188, AW451326, AI282821, AA719817, N54128, AI671041, AA908595, AA601645, AI241976, AA614595, AA584148, AI570118, AA650183, AI311226, T97590, AA810374, AA018757, AW068020, AA657534, AW021154, AA599241, AI913307, D11859, AA676621, AI044177, M77895, AI869786, AA984543, H95286, AA442384, AW008231, AI044086, AI921188, AI583677, N34258, T06876, AI133163, AC007666, AC000052, AC004019, AI109627, AC006208, Z97054, AC009275, AC008154, AL033379, AC008124, AC005164, AL031427, AC005027, AI118497, AC000395, AF139813, AC005049, AP000269, AC006048, AI118510, AC000029, AC005799, AC008039, AC005225, AC004106, AP000103, AI034423, AC007151, AB018341, AP000300, AP000113, AP000045, AC008064, AC006500, AP000304, AI049856, AP000047, AC004454, AP000115, AI132712, Z97053, AC004185, AC005740, AI133312, AC004822, AC004832, AC006057, AI035461, AP000066, AC004815, AC005280, AI022316, AI049691, Z68288, D86995, AC005138, AC007938, U82695, AP000032, L05367, AC005320, Z82188, Z85986, AC007226, AC004526, U73023, AI031258, AC005621, AC005382, Z98886, AC004505, AI023579, AI049554, AC004408, AC004743, AP000466, Z98754, AC005484, Z84469, AC007057, AC008079, AP000509, Z69890, AC004495, AF020662, Z78021, Z95327, AP000089, AP000142, AP001068, AC001231, AP000697, AC002331, AP000696, AC007172, D87675, AJ011930, AI023913, AC005899, Z93244, AI008732, AF019413, AI024498, AC007671, AC012099, AC005495, AP000501, AI117330, Z74617, AI035209, AP000502, AC004991, AI031577, AC005094, AC006288, AI031666, AI031767, AI133485, AC007738, AC006353, D84394, Z73988, AI050347, AC005625, AC004783, AI031905, AI049843, AC006409, Z98950, AC005844, AC005509, AC004953, AI009181, AC003071, AF126403, U91323, AC005822, AC008126, AC005696, AC005874, AF134471, and AC006211.
HTXLF08	6466	958421	1 - 423	15 - 437	AI204494, AI653977, and AC002073.
HTXLG57	6467	790610	1 - 450	15 - 464	
HTXLG64	6468	974598	1 - 655	15 - 669	
HTXLH60	6469	869336	1 - 409	15 - 423	
HTXL165	6470	974018	1 - 444	15 - 458	
HTXL191	6471	787577	1 - 405	15 - 419	
HTXLJ70	6472	756679	1 - 618	15 - 632	AP000355.
HTXLK35	6473	840283	1 - 457	15 - 471	AA633787, AA737678, AA764873, N31505, AI051943, and AI310706.

HTXLLK95	6474	795355	1 - 313	15 - 327	<p>AI002744, AA601125, AA502991, AL133909, AI832009, AW069819, N23504, AA630672, AL046549, AA631507, AI038149, R49657, AI907530, AA812139, AC004787, AC005031, AC005670, AC005295, AC003969, AC007055, AC007878, AC004140, AC005901, AL049780, AC006449, AL049539, AL023281, AC004477, U80017, AL034451, AC004237, AC004799, AP000049, AP000193, AP000311, AP000117, Z74618, AC004517, AC004655, AC007199, AL022322, AC005747, AC002301, AC005277, AC002553, AL049699, AC004609, Z83846, AC007845, AC007226, AP000251, AP000030, AP000134, AP000212, AC006142, AC004456, AL035587, AL031311, AL033525, AL080243, AC005057, AC006530, AL009031, AC002326, AL031681, AC004051, AC002045, and AC004966.</p>
HTXLL78	6475	773071	1 - 445	15 - 459	<p>AA812542, R48980, AA358258, R64617, T96238, T90484, AI821396, AA689351, AA706160, AA515924, AA910783, AW188791, AL046519, AI821390, AA740879, AI280574, T52786, AI343169, H38769, T90477, AA573693, AA601653, T56025, T58448, AA588611, AL041375, AA826033, T59605, AC005005, AC002994, AC006950, AC002331, AL078462, AP000497, AC006130, AC004448, AC005924, AL049708, AL109980, AL109854, Z92546, AC005355, AL050321, AC004079, AC006148, AC005484, AC003029, AL118523, AC006368, AC006287, AC005832, Z85996, AL031774, AC005800, AP000353, AC005686, L14561, AP000048, Z98051, AC002464, AL031281, AL049759, AC004838, AC004990, AL117337, AF205588, AC003013, Z84718, AF130351, AC002073, AF019967, AF191069, AF096876, Z68192, U73166, AC005765, AC004938, AC006468, AC005383, Z97056, AL132712, AL020997, AC004081, AC002543, AC004129, AC005747, AF001550, AC005237, AL049869, AC006443, AL035687, AC005266, AC008179, AC009516, AC005346, AL035407, AC003982, AC009399, AF111168, AC002385, AC004223, AC006511, AC004241, AL034402, AC005954, Z83840, AL079340, AL034561, U29895, AP000298, AP001059, AF039907, Z97630, AC004650, AC005694, AP000089, AP000141, AP000112, AP000044, AP000692, AL031293, AC004668, AC004955, Y18000, AC003663, AP000351, AP001052, AL031311, Z95152, AC005874, and AF134471.</p>
HTXLL89	6476	786475	1 - 436	15 - 450	<p>AI561060, AW070892, AA478355, H53984, AI306191, AI305894, F00107, AA483929, N86538, AW022065, AL135377, AA018823, AA774059, AI252176, AI382825, AA478866, AI124610, AA493975, AL120897, AA508359, AI088768, AI754253, AA654781, H18914, Z22960, AL121235, AW148507, AW022406, AA478867, AA493894, AA987843, AI254192, AA012964, AW103758, F05324, H29443, AA620983, T06754, T25806, AL044185, AA846876, AW327868, AA551552, AI873852, AL119649, AL036413, F01045, AA069445, AA832444, Z82250, AL031287, AC005101, AL023553, U66059, AC004686, AC008014, AF217403, AC000082, AP000690, AC004815, Z98941, AL031846, AB023049, AC000373, AL035417, AC000355, AC005943, AC005048, AC003081, AL022336, AC005043, AC000088, AC004069, AL050318, AC006449, X03340, AC008122, AL034429, AL050350, AC006501, U93305, AC004655, Z82206, AL079342, AF196779, AL109798, L13176, AL049539, AL096791, AL031311, AC005908, AC002072, AC009225, AC007227, AC002310, AC005682, AC000394, AC006046, Z82244,</p>

					Z93244, AL034374, AL035045, AC008044, AC006346, AL022718, AC005880, AC007676, Z83844, AC004687, AC005772, U47924, AJ006996, AP000390, AL078614, AC006479, AC007225, AC006371, Z82245, Z81314, AL049748, Z94056, Z97989, AL133238, AL109759, U65416, AB000878, AC002985, AC000026, AL049709, AL035555, AC004103, AC009501, AC007546, Z97055, AC006443, AP000223, AF181897, AP000086, AC006004, AL034553, AL049760, AL050307, AL035691, AC004990, AP000506, AF141309, M63543, M63480, M63544, AL080245, AP000359, AL121757, AC007172, AC006040, AC005386, AP000512, AC004992, AC005102, AC004460, AF200465, AC006480, AL136504, AC002480, AF111167, AC005859, AB000882, AL022323, AC005146, Z69917, AC004097, AL021878, and AL031281.
HTXLN72	6477	951958	1 - 256	15 - 270	AL050318.
HTXLO02	6478	918658	1 - 505	15 - 519	N58534, N78125, AL215964, AL147574, AA994388, AA308806, AL284640, AW338869, AW074398, AL1814735, AA515435, H64777, AW410400, N59638, F19258, AA610491, AA228329, AL110770, AW193265, AL471481, AL446464, AA340003, AA747472, AA229785, AL064864, AW339568, AA580662, AA683031, AA584749, AL205126, AA535661, AL053672, F36273, AW269488, AL963720, AA362700, AL334443, AL742771, AA318652, AL138265, AL349874, AL792108, F35113, AL610159, AL962050, AL937850, F31204, AL133986, AA558697, AL003172, AL917271, AL914706, AA551509, AA916039, N43757, AL015912, AL041706, AL287964, N71724, AA450199, AA831388, AW193432, AA515128, AF177861, AL669453, AW419262, AL921649, AL340453, AL376100, AW074207, AA828851, AA361344, F29989, AL624698, AA593060, AA365347, AW074059, AL356904, AL922654, AL564284, AL570138, AA366035, AL038785, AA715606, F37286, AA713815, AA164960, AA631507, AL350211, AA743956, AW029038, F25203, AA633936, AA714595, AL358229, AL061334, AL282907, AL339440, AA569187, AW406755, AL047643, AA077817, AL365988, AA733208, AL041368, AA747480, AL677758, AA838479, AL341664, W60516, AW339687, AL613280, AW188544, AW190289, AL635272, AL499181, AA838477, AL688846, AA359958, AL040547, H60216, AL339850, AL554289, AA745410, H60544, AL040130, AL361060, AL037914, AL287528, AL679379, N23874, AA658235, AL358343, AW103415, AL679888, AA350859, AL744739, AL431303, AL246340, AL469166, AL499094, AL929531, AW069807, AW069427, AL079935, AL830390, N73083, AA584458, AL079812, AW276827, AA559290, AA747276, AL613261, AL046409, AA682189, AL709365, AW166815, N26061, AW162049, AL879000, AL355224, AL133164, R93081, AA557879, H92005, AA292574, AA095511, AL557323, AL955323, AA904218, AW088058, AL357551, AA491814, AW264973, AL371070, AC006116, AC007676, AC007228, AC003081, AC000378, AC000353, AF176915, AC008062, AC009044, AC005294, AC007182, AC006213, AC002067, AL022721, AL121655, AL023284, AP000555, M87918, AC004987, AC007628, AL031681, AC006130, AL109807, AC007051, AC006948, AC007919, AC007842, AL031662, Z84719, AC005696, AB020859, Z98946, AC006582, AL021453, AC005182, Z94721, AC007245, AL133396, AL035086, AC004184, Z84475, AL031256,

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HTXLO14	6479	869332	1 - 346	15 - 360	
HTXLP15	6480	869202	1 - 580	15 - 594	AI207023, AI056259, F25099, AL034420, AF001551, AC006141, AC003958, AC004836, AC005069, AF001550, AC005696, AP000310, AL031584, AC008273, AC005081, AC002369, AC007381, AP000116, AL132826, AC005284, AC005695, AL035410, Z99291, AC005015, AL049631, AC005046, AC003957, AC002544, AC006515, AC002350, AC008038, Z85996, and AC005943.
HTXLP18	6481	973431	1 - 1120	15 - 1134	
HTXLQ28	6482	869331	1 - 253	15 - 267	
HTXLT33	6483	919761	1 - 249	15 - 263	
HTXLU64	6484	783411	1 - 274	15 - 288	
HTXLU82	6485	779215	1 - 352	15 - 366	

HTXLV39	6486	972762	1 - 587	15 - 601	AW024320.
HTXLY02	6487	866819	1 - 437	15 - 451	
HTXMC82	6488	779198	1 - 513	15 - 527	
HTXMH13	6489	928105	1 - 468	15 - 482	
HTXMH80	6490	775487	1 - 789	15 - 803	AI767654, AI654951, AI654511, AC003037, AR060648, Y15164, and Y16355.
HTXMI18	6491	921101	1 - 558	15 - 572	AA354168, AL021920, AC006359, Z63341, Z56778, Z63773, and Z61872.
HTXMI62	6492	870456	1 - 610	15 - 624	AW204494, AI167739, AI308750, AW079517, AA810700, AI304463, AI348049, AA781353, AA740190, AI245908, AA448390, AI073753, AI346019, AI240109, AA579960, AI146972, AA194605, AI924255, AI245270, AI160024, AA782917, AI198405, AA804861, AI498033, AI244610, AI018032, W84699, AI088909, AA150413, AW195727, AA150136, AW207349, AI350465, AA773774, AA448387, AA908581, AW182756, AI023582, AA772649, AI698603, AA740373, AI245510, AI004632, AI198724, AI566264, AA477201, AA291758, AA305875, AA477036, W79002, AA768998, AA194636, AA353431, AI459372, F34275, AA781769, AA401771, W63647, AA479797, H69491, AA026446, AA148813, AA152187, AW074444, AA148463, and AA026249.
HTXMJ03	6493	923001	1 - 338	15 - 352	AA278496, AA427747, AI625778, AL118567, AW419161, AA503454, AI251429, AA372881, AA527396, AA354311, AA504951, AI271985, AI631064, AC002531, AC000353, AC004765, AC002375, AL035688, U41384, AP000303, AP000114, AP000046, AI109657, AP000359, AL031296, AC005701, AP000275, AL031284, AL031670, AL021391, AC005569, AC007676, AC005215, AC004895, M19364, AC005193, AC004880, AC007690, AC006023, AL035681, AC007510, AL117338, AC005781, AC004600, AC007129, AP000037, AP000105, U75931, X55448, AP000210, AP000132, AL035659, Z95329, AP000248, AB026899, AC006251, AC005839, AC007993, and AP000326.
HTXMJ50	6494	830027	1 - 395	15 - 409	H93883, AF140360, and AF074606.
HTXMO28	6495	823172	1 - 464	15 - 478	AA504938, AF115510, and AF045573.
HTXMO81	6496	869319	1 - 770	15 - 784	T10293, Z98044, AC004463, and AC002040.
HTXMP92	6497	972759	1 - 558	15 - 572	
HTXMQ07	6498	952206	1 - 564	15 - 578	AC006449, AL049761, AC004491, Z97054, AL133163, Z93023, AL121658, AJ246003, AL139054, AL035072, AJ229041, Z83822, AL080243, AL031255, AC006511, AC004150, and AC002316.
HTXMT06	6499	933376	1 - 594	15 - 608	AA836811, AL047602, AI561043, AL132777, AC005180, AL024507, AC003070, AC005225, AC005257, AL078581, AL133245, AC004967, AL109963, AC005736, AC005778, AL009172, AC005206, AC005015, AL118497, AC006121, AL021707, AC005667, AC006088, AC005765, AC005747, AC006360, AC004996, AC004876, AC004953, AL049830, AC004985, AC005696, AC002477, AC002565, AF196779, AC005089, AP000251, AC007283, AL035249, AP000030, AC000111, AC006160, AL096701, AL022326, AL021808, AC004263, AL031311, AL117258,

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HTXMU10	6500	961472	1 - 297	15 - 311	AA360680.
HTXMX03	6501	923005	1 - 801	15 - 815	H69312.
HTXMX32	6502	789063	1 - 414	15 - 428	
HTXMX41	6503	789332	1 - 658	15 - 672	AI143899, AI185700, and AA935389.
HTXMY15	6504	780129	1 - 487	15 - 501	AC006369.
HTXMY23	6505	835044	1 - 1094	15 - 1108	
HTXMZ91	6506	789619	1 - 355	15 - 369	
HTXND08	6507	869311	1 - 605	15 - 619	AA612727, AF017104, AC016831, AC005940, AC006441, AC005071, AC005277, AC005921, U82828, Z93023, AC007868, AC005781, AC004854, AL133353, AC002395, AC005829, AC003091, AP000501, AF134726, AC007899, AC004686, AC004009, AB023048, AC005067, AC005379, AC005288, AC005920, AL022166, AC002394, AC004967, AC007011, AF165926, AC000035, AC006023, AC002316, AC002072, AL031295, AC003006, Y10196, AC003043, AL109623, Z84466, AC004383, AC010200, Z98941, AC004605, AC006121, AC004812, AL049759, AC005332, AC002091, AL031133, AC002300, AL035086, AC004584, Z69890, AC008498, AC006285, AL008718, AP000263, AC004000, Z82214, and AC002563.
HTXND91	6508	789706	1 - 634	15 - 648	
HTXNF56	6509	974048	1 - 359	15 - 373	

HTXNJ80	6510	966045	1 - 269	15 - 283	
HTXNM82	6511	973993	1 - 354	15 - 368	
HTXNN03	6512	922997	1 - 500	15 - 514	AC007151, and AC005071.
HTXNN33	6513	780965	1 - 1099	15 - 1113	AA687306, AA262231, and H59981.
HTXNO48	6514	963444	1 - 242	15 - 256	AC004001.
HTXNO58	6515	916249	1 - 447	15 - 461	
HTXNQ06	6516	934303	1 - 424	15 - 438	AI017099, AA115566, AI679782, AA368329, W80696, AA159006, AI940546, AA524800, AA133013, AI733856, AI821659, AI281622, U46402, AW023975, AW161459, AW268329, AW161879, AI191343, AI003797, AA936548, AA339592, AW029626, AI888050, AI018726, AI982994, AI114645, AI475294, AA827383, AW169390, AW157173, AA533923, AA533660, AI520925, AW265688, AA559166, AI686563, AA313078, AI749306, AA809131, AA832235, AL043707, H59856, AA084320, AW129188, R31264, AA099907, R66407, AA218684, AC002126, AC005620, Z82182, AC006162, AP000555, AC005565, AC006026, AC004263, AF064857, AC006001, AL133553, AC006006, AC007225, AC004081, AC005988, AL049709, AC005759, AL035086, Z95116, AL078581, AC007216, D86995, AC005703, AC005295, AC004832, AC010205, AC005005, AC005409, AC006130, AC000353, AC005288, AC000003, Z83844, AC006312, AL009179, AL022315, AC006084, AC004820, AC004671, AC005839, AL035420, AC005355, Z98051, AC005821, AC004638, AC002310, AC004821, U95742, AC006538, AP000091, AC005377, AL034548, AP000692, AF003626, AC005089, AP000503, AC007114, AL034549, AC006430, AL031277, AL031427, AC004812, AC002369, AF107257, AB004907, AC004834, AC007686, AC007917, AC005940, AP000236, AC005544, AC005480, AC005913, AC004150, AF031078, AP000045, Z98946, AC004922, AL022395, AL049843, Z82097, AF030876, AF196969, Z97352, AC004382, AP000030, AP000212, AP000134, AL132826, AC007066, AC002077, AF031076, U85195, AP000346, Z99128, AL049569, AC005412, AE000658, AL035658, AB003151, AP000688, AL022324, AC005003, AC003982, AC005086, Z84486, AC007201, AC006322, AC000065, AF111168, AL021154, AL121652, AC005592, AC002350, AL031447, U91323, AL035072, AC002381, AC005332, AP000337, AC005800, AL008635, AC006241, AC004230, AF111808, AC004000, AC005102, AL034429, AC005017, AL035249, AF134726, AP000502, AC007731, AF111169, AC004034, AC005500, AC005484, AC005803, AL050318, AC004953, AC005911, AC002558, AL035450, AL008718, AC002115, AL109963, AL049761, AL096774, AC002430, AC005519, AL096712, AL024507, AL008719, AC002554, AC016831, AC004125, AC007363, AF045555, AC002425, AC007384, AC002378, AP000355, AC003037, AL133312, L44140, AC004009, U78027, AL110502, AC006271, AL031311, AP000359, AC000026, AC002040, AC005581, AL022311, AC004816, AC004231, Z83820, AC004019, AC004491, AC002472, L81868, AL078638, AL133163, AC005048, AC005206, AC003669, AC004938, AC004106, AC004890, AC002404, AL035422, AC007263, AC006948, AC004084, AC003029, AC002059, AC005920, AC008041, AP000010,

HTXNQ63	6517	951939	1 - 216	15 - 230	AP000049, AF053356, AL031729, Z84466, AL034420, AC003957, AC007537, Z81369, AC005088, AC006480, AC005914, AC005225, AC005625, AC004408, AC005667, AP000501, AC005081, AC002477, AC006251, AF030453, AP000311, Z98200, AL049757, AC002470, AC016830, U91327, AC004132, AL021155, AF124523, Z95113, AL132992, AC007240, and AF095901.
HTXNR01	6518	913781	1 - 542	15 - 556	AC005585, and AC004997.
HTXNR17	6519	856465	1 - 1217	15 - 1231	AL109616, AP000085, and AP000222.
HTXNT07	6520	952165	1 - 850	15 - 864	AI168689, AA447759, N24906, H80735, N36031, and AI088950.
HTXNT43	6521	869398	1 - 696	15 - 710	AW104380.
HTXNT76	6522	869189	1 - 720	15 - 734	AI140432, R67196, H09197, Z44614, and W86042.
HTXNU51	6523	972837	1 - 607	15 - 621	T11417, AW178893, D80195, D80193, AW177440, C06015, AW360817, D80022, AA514184, AW178907, AW178908, D80164, D59502, AW352170, D80439, AA305409, AW366296, D59619, D80210, D80391, D80240, D59787, D80227, D59467, D80247, C03092, AW377676, C14331, AA305578, D45260, D59275, D80038, AW377672, AW178905, AW177731, C14389, AW378528, AW378533, AA809122, AW378532, AA285331, AW360811, D80166, AW375406, AW179328, D80251, D58283, D59859, D59927, D51423, D51799, D80253, D80043, AW179023, AW378534, AW179019, AW179332, AW378542, AW178762, T48593, AW178911, F13647, AW178906, T03269, AW367950, AW178914, AI557774, AI525920, AI525227, I14842, I50126, I50132, I50128, I50133, AB002449, A62300, A82595, AR060385, D89785, A84916, AB028859, AJ132110, D34614, AR062872, A62298, AR018138, AR008278, AF058696, AR066488, AR016514, Y09669, A70867, AR066487, Y17187, AR060138, A45456, A67220, Y17188, A78862, A94995, D26022, A30438, A26615, AR052274, A43192, X67155, A63261, A43190, AR038669, A25909, Y12724, A64136, A68321, AR054175, X68127, AR008443, AR008408, AR016691, AR016690, and U46128.
HTXNY70	6524	869289	1 - 503	15 - 517	AA326098.
HTXNY74	6525	918076	1 - 523	15 - 537	AI990442, AI760050, W17255, AI743197, AA161408, AA046819, AA100199, AI937600, W17197, AW134967, AA365733, AI878952, AW407024, F11958, AI440483, AW404641, T65652, AW408221, AW247376, AA101041, AL134478, AI420513, AA418264, AA993567, AA446731, N78836, R08951, H53247, AF078856, Y10769, AB002086, and AF112211.
HTXOC32	6526	869280	1 - 627	15 - 641	
HTXOD62	6527	806643	1 - 920	15 - 934	AW160365, D83782, and U67060.
HTXOG84	6528	929289	1 - 493	15 - 507	AW405057, AI950337, and AC002303.
HTXOH04	6529	926909	1 - 358	15 - 372	
HTXOH60	6530	869271	1 - 524	15 - 538	
HTXOJ50	6531	869279	1 - 696	15 - 710	AA640727, and AA569750.

HTXOJ92	6532	974039	1 - 477	15 - 491	AW409822.
HTXOM10	6533	963435	1 - 414	15 - 428	AW367431.
HTXOO06	6534	934248	1 - 633	15 - 647	AI033221, T67234, and AI247472.
HTXOO83	6535	898860	1 - 546	15 - 560	
HTXOR11	6536	965090	1 - 493	15 - 507	
HTXOR48	6537	869253	1 - 649	15 - 663	AA114199.
HTXOR86	6538	914739	1 - 599	15 - 613	
HTXOS47	6539	965558	1 - 757	15 - 771	AA424143, AI702720, AI039624, and AA424185.
HTXOT42	6540	974034	1 - 421	15 - 435	
HTXOU06	6541	852057	1 - 535	15 - 549	
HTXOU48	6542	869252	1 - 409	15 - 423	AL022398.
HTXOU67	6543	906909	1 - 406	15 - 420	
HTXOX02	6544	918556	1 - 600	15 - 614	AP000694.
HTXOX42	6545	920274	1 - 540	15 - 554	
HTXOZ02	6546	918566	1 - 446	15 - 460	AA348747.
HTXPF93	6547	954976	1 - 621	15 - 635	D80253, D58283, D80366, D80043, D80188, D80022, D59275, C14331, D80391, D59787, C14389, D80195, D80196, D59619, D80210, D80166, D80240, D59859, D80164, D81030, D59502, D59467, D51423, D51799, D80227, D80212, D50995, D80219, C15076, D59927, AA305409, D57483, D59889, D80269, D80038, D80193, D50979, D80024, C14429, D59610, D80378, D80251, D80045, D51022, D51060, D80241, AA305578, AW177440, D81026, T03269, C14014, AW178893, D80248, AW179328, AA514188, D80522, C75259, AW360811, AA514186, D80133, AW378532, D80247, D80134, D80132, AW178775, F13647, AW369651, AW178762, AW375405, C05695, AW177501, AW177511, AW377671, D51250, D80168, D58253, D80268, AW366296, AW360844, D80439, AW360817, AW375406, AW352158, AW378534, AW179332, AW377672, AW179023, AW178905, D59695, D80949, AW177505, C14227, AW352117, AW176467, D80302, AW352170, AI910186, D80064, D81111, AW352171, D51079, AW377676, AW178906, AW177731, D59373, AW178907, AW179019, AW179024, C14298, C14407, AW177728, AW360834, AI905856, AW360841, AW179020, AW378540, AW178909, AW177456, T11417, AW179329, AW178980, AW178774, AW177733, AW378528, AW178908, AW178754, AW378543, AW179018, D51103, D80157, AW352174, Z21582, AW179004, AW179012, D51759, AW178914, AW178781, AW378525, AW367967, C14077, AW177722, AW179009, AW352120, T48593, AW178911, AW352163, AW178983, D58246, C06015, AA285331, D59653, D51097, D59503, AI557751, D58101, AA809122, C03092, D45260, H67866, D59627, AW177723, D51213, AW367950, D80258, H67854, AI535850, AW378533, AI525923, D80014, AW178986, C14344, T03116, AW177508, D45273, AI525917, D59317, D60010, C14973, D51221, AW177497, AI535686, D59474, D51231, AI525920, C14957, AW177734,

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HTXP103	6548	922877	1 - 474	15 - 488	AL109830.
HTXPK10	6549	963397	1 - 639	15 - 653	AC005783.
HTXPK28	6550	957888	1 - 339	15 - 353	AC005261.
HTXPO91	6551	869224	1 - 722	15 - 736	AL049653.
HTXPO92	6552	869214	1 - 665	15 - 679	AP000700.
HTXPP33	6553	799925	1 - 759	15 - 773	D80038, D80164, D51423, D59275, D80195, D50979, C06015, C14389, D59467, D80227, D59502, AA305578, D80043, D58283, D81026, D80269, D80193, D59859, D59610, D80022, C14331, D80166, D59619, D80210, D51799, D80391, D80240, D80253, D59787, D80268, AA305409, D80439, C15076, D51103, D81030, D80188, D80247, D80248, D80522, D80212, D80366, D80196, D51022, D80045, D80219, D80302, D50995, AA514188, D59927, D51060, D57483, C14014, D80378, D80241, D59889, D80133, D80024, AA514186, AW360811, AW177440, D80157, D80251, T03269, D51759, AW178893, C14429, AW377671, AW375405, D59653, C75259, AA809122, AW178906, AW177731, AW179019, H67866, D45260, AW366296, AW360844, AW360817, AW179328, C05695, AW179020, D59373, AW375406, T48593, AW378534, AW179332, T11417, AW377672, AW179023, AW178905, AW178908, AW378532, AW378528, AW178762, AW177501, AW177511, D59503, AW360834, H67854, C03092, AW352171, AW377676, AW179004, AW352170, D81111, AW178907, AI525923, AW179024, C14227, D59317, D80132, F13647, D59627, D80258, AW177505, D52291, D51250, D80134, AW360841, T03116, D80064, AW178775, AW178909, AW177456, AW176467, AW178986, AW179329, AW177733, AW352120, AW179009, AW178980, D58246, D60214, AW178914, AW178911, AW178754, AA514184, AW179018, AW352158, D58101, AW367950, D51213, AW352117, AI525917, D80014, AW178774, C14973, AW177734, C14344, AW378533, AI535686, D51221, AI525227, D59474, AW179012, C14407, D59551, D59695, D60010, AW378525, AW177722, AW352163, AI525920, AI557751, AW378543, AW378540, AW378542, C14957, AI557774, AW177728, AI525242, C14046, AW378539, AW177723, AI525215,